Base Load Power Hub (BLPH)

WELDING REGISTER & UT REPORTS - STRUCTURE

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Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
00	Issue for Information (IFI)

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1 INTRODUCTION AND INSTRUCTIONS FOR USE

This dossier compiles the Ultrasonic Testing (UT) reports and related certificates for the structural components supplied within the BLPH project.

It has been organised to support both structured navigation and efficient, targeted information retrieval.

Guidance on how to consult and interpret the reports—starting from the Welding Register—is provided in the document IDL-PRQ-02 Welding Register & NDT Report Interpretation, attached herein.

NOTE: Whenever the Welding Register indicates:

- Ref. Dossier Scandiuzzi
- Ref. Dossier Cimolai
- Ref. Dossier Sidertaglio

reference shall be made to the document "STRUCTURE WELDING LOG AND NDE REPORTS – EXTERNAL WORKSHOP" (123A90-PML-QC-DB-00014).

This document compiles the Welding Log together with the relevant NDE certificates issued by the above-mentioned suppliers.

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2 IDL-PRQ-02 WELDING REGISTER & NDT REPORT INTERPRETATION

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Rev.	*Data*	*Descrizione*	*Preparato da*	*Approvato da*
2015-00	21.01.2015	Prima Emissione / First Issue	F. Scialpi	D. Depasquale
2020-00	13.01.2020	General revision	C. Gemignani	D. Depasquale
2023-00	23.08.2023	General revision	A. Galesi	D. Depasquale
2025-00	18.09.2025	General revision	A. Galesi	D. Depasquale

1. SCOPE/SCOPO

The following instruction provides useful clarifications for reading the print of the weld register relative to the identification of the welds, welder punches, controls, etc.
Furthermore, it provides a reading key for some codes indicated in the Non-Destructive Test reports.

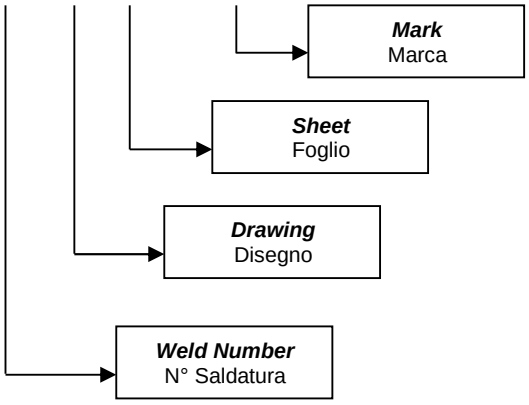
La seguente istruzione fornisce chiarimenti utili per la lettura della stampa del registro saldature relativamente ad identificazione delle saldature, punzoni saldatori, controlli, ecc.
Inoltre, fornisce una chiave di lettura relativamente ad alcuni codici indicati sui report dei Controlli Non Distruttivi.

2. ROSETTI WELDS/SALDATURE ROSETTI

Starting from the construction drawings, with the welds map, issue by Rosetti (see Attached 1A for structures and 1B for piping) it is possible to identify the weld.
On the welding register the identification is reported as in the example below.

Partendo dai disegni costruttivi con la mappa delle saldature emessi da Rosetti (vedi allegato 1A per le strutture e 1B per il piping) è possibile individuare la saldatura.
Sul registro l'identificativo della saldatura è riportato come all'esempio sotto.

7 / 178 / 1 / DJA006



Following the welding number are show: drawing revision, production date, welder stamp, item type (tab. A), item size (it is the size indicated in the descriptive part of the table of materials), thickness (s), geometry of the bevel, welding length, production (prefabrication/erection/offshore), kind of material, WPS, weld technique, connection type and weld acceptance date.
Under this string are listed all the checks that must be performed on the weld (tab. B) with specified near the phase, the Job Instruction used, the operator performing the check, the extension, the number the date of the reports, the judgment (tab. C), the length of any repairs and the WPS to execute them.

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Di seguito al numero di saldatura sono riportati: revisione del disegno, data di produzione, punzone saldatore, tipo pezzo (tab. A), dimensione pezzo (è la misura indicata nella parte descrittiva della tabella materiali), spessore/i, geometria del cianfrino, lunghezza saldatura, fase di produzione (prefabbricazione / montaggio / offshore), tipo di materiale, WPS, tecnica di saldatura, tipo di connessione e la data di accettazione della saldatura.
Sotto questa stringa sono elencati tutti i controlli che devono essere eseguiti sulla saldatura (tab. B) con specificato vicino la fase, l'Istruzione Di Lavoro utilizzata, l'operatore che esegue in controllo, l'estensione, il numero la data dei report, il giudizio (tab. C), la lunghezza di eventuali riparazioni e la WPS per eseguirle.

3. ATTACHMENTS/ALLEGATI

1A *Structural drawing* / Disegno Strutturale

1B *Piping drawing* / Disegno Piping

2 *Welding register* / Registro saldature

3 *Code description* / Descrizione codici

- Tab A *Item type* / Tipo pezzo
- Tab B *Non distructive test type* / Tipo controllo non distruttivo
- Tab C *NDT Result* / Esito CND
- Tab D *Indication Type* / Tipo di indicazione

4 *Non destructive test report example* / Esempi di Rapporti controlli non distruttivi

Dye penetrent / Liquidi penetranti

Magnetic particle / Particelle magnetiche

Ultrasonic / Ultrasuoni

Radiographic / Radiografico

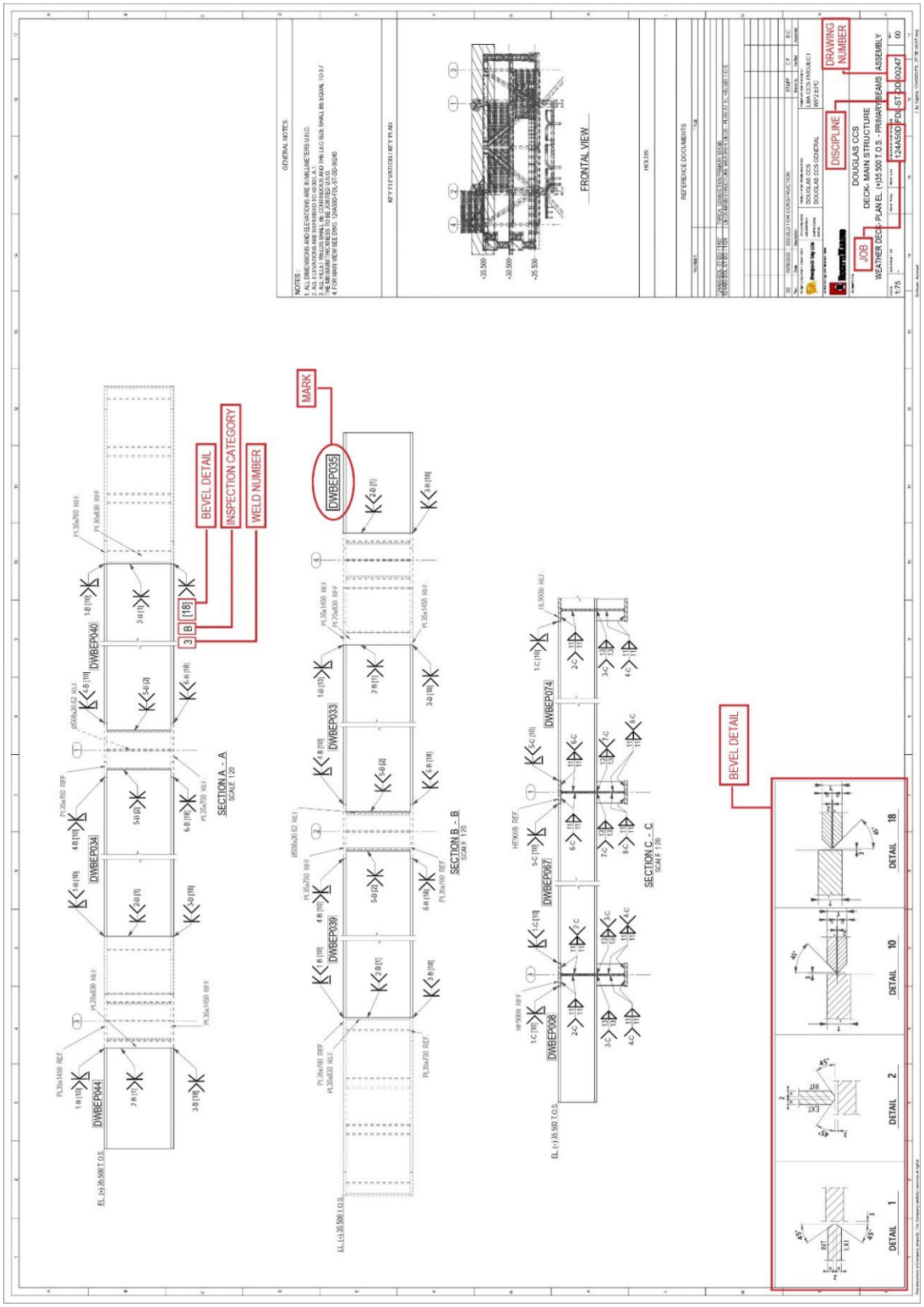
5 *Ultrasonic test report with indication* / Rapporto Ultrasuoni con indicazione

Indication report (second sheet) / Rapporto di indicazione (seconda pagina)

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ATTACHMENT 1A

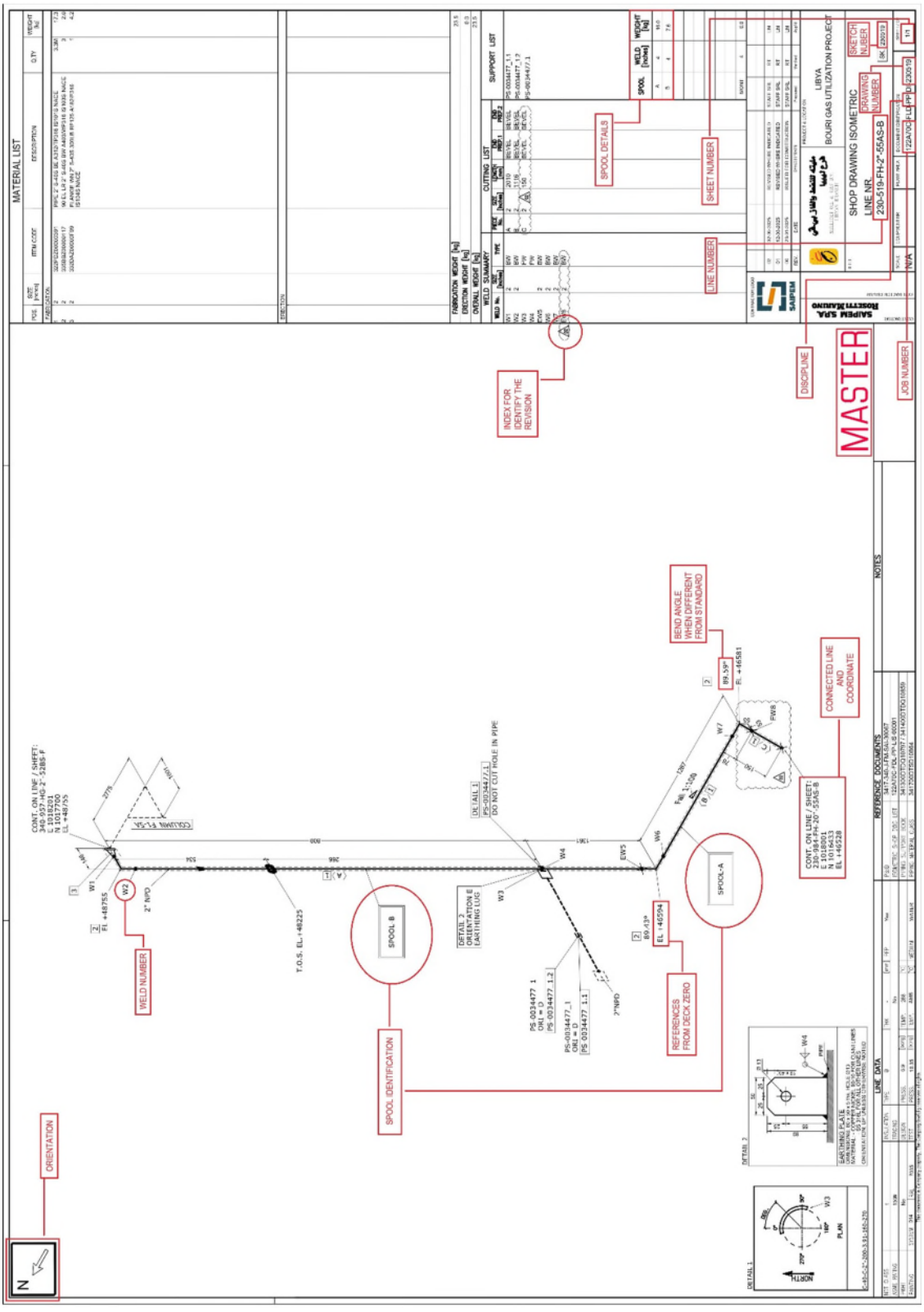
Structural Drawing



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ATTACHMENT 1B

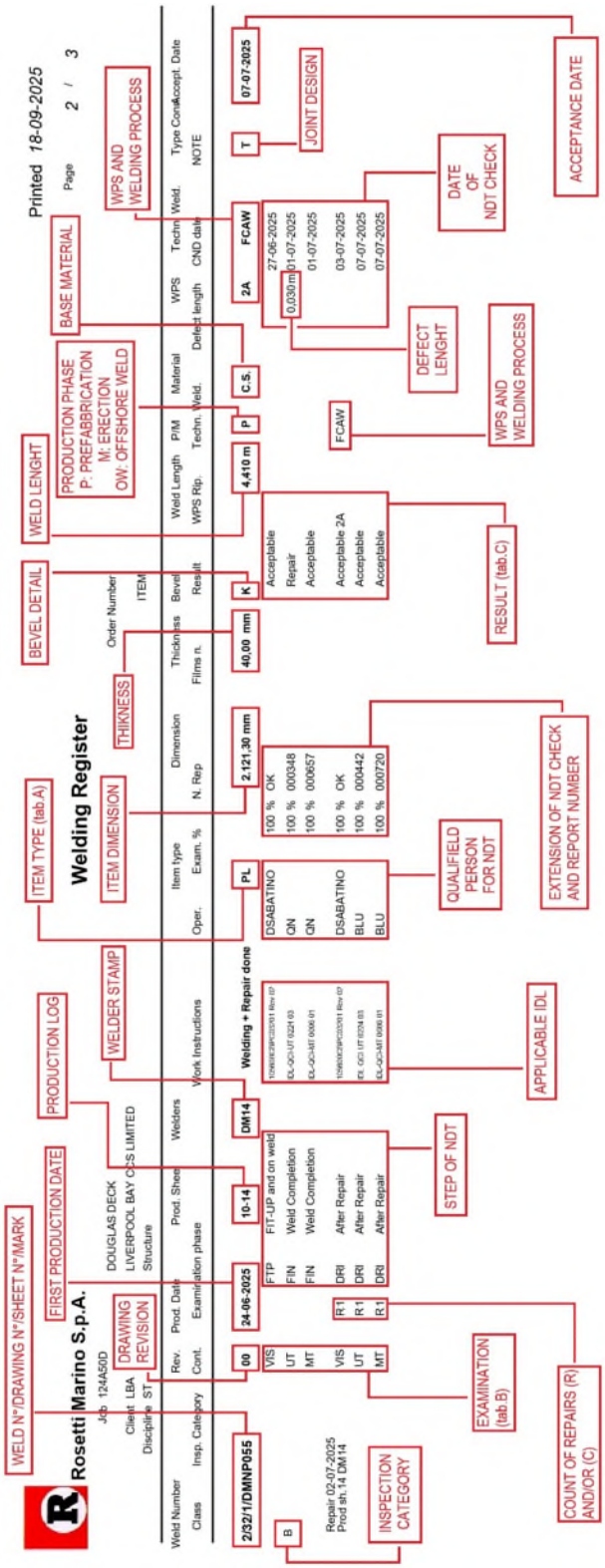
Piping Drawing



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ATTACHMENT 2

Welding Register



ATTACHMENT 3

Code Description

Tab. A Item type

Code	Description		Code	Description
ALL	All types of parts		LTR	Latrolet
BOMA	Nozzle		MAN	Coat
BOS	Coupling		NFL	Nipoflange
C	UNP		NHUN	Nipohub
CAP	Cap		NIPH	Nipple PBE
CON	Cone		NIS	NIP SWA
ELB	Elbow		NPT	Nipolet
ELET	Elbolet		NTOE	Nipple POE
FLA	Flange		PAD	Double plate
FLG	Flangeolet		PIPE	Pipe
FLJ	Flange Lap Joint		PL	Plate
FLT	Flatolet		PLR	Reinforced plate
FLW	Flange L.W.N.		RED	Reduction
FMH	Manhole		SAD	Saddle
FSO	Flange Slip-On		SHS	Square hollow section
FSW	Flange Socket Weld		SK	Skirt
FWN	Flange W.N.		SOC	Sockolet
G3P	Three piece joint		SUP	Support
GISO	Insulation joint BW		SWE	Sweepolet
GOB	Half shell		SYT	Strainer Y-Type
GOL	Pad eyes		T	T Profile
HCP	Half coupling		TC	Plate ghirder
HEA	HEA		TEE	Tee
HEAD	Head		THR	Thredolet
HEB	HEB		TON	Rod steel
HEM	HEM		TQ	Square pipe
HUB	Hub		TRU	Trunnion
IPE	IPE		VAL	Valve
IPN	IPE inclined wings		WFLA	Weldoflange
L	L profile		WHU	Weldohub
LET	Thredolet		WOL	Weldolet

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Tab. B Non Destructive Test type

Code	Description
FCN	Ferroxyl Test
FET	Ferrite Test
HT	Hardness Test
IV	Video Inspection
LP	Dye penetrant
MT	Magnetic Inspection
PLF	Proof Load Test
PMI	Positive Material identification
PPI	Hydraulic Test
PPN	Pneumatic Test
RT	Radiographic Inspection
TT	Post Weld Heat Treatment
UT	Ultrasonic Test
UTC	UT Chevron Crack
UTE	UT AT ENDS
UTL	Lamination Check
UTP	UT Phased Array
UTS	UT Check for Thikness
UTT	TU TOFD
VCF	Checking Content of Iron Carbon
VIS	Visual Inspection

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Tab C. NDT Result

Code	Description	
A	Acceptable	
R	Not Acceptable /Repair	
T	Cut	
C	Reshoot	Only for Radiographic test

Tab. D Indication type

Code	Description - Descrizione
BB	Aligned or series – Allineate o in serie
F	Undercut – Incisione
AB	Worm hole – Tarlo
FA	Superficial irregularity – Irregolarità superficiale
CA	Elongate cavity – Cavità allungata
CD	Confirm defect – Conferma difetto
CI	Irregular weld – Cordone irregolare
E	Crack – Cricca
BE	Defect of restart – Difetto di ripresa
DF	Defect of film – Difetto film
BA	Slag inclusion – Inclusioni di scoria
AA	Porosity – Porosità
F	Indentation or undercut – Solco o incisione
EX	Excess penetration – Eccesso di penetrazione
SL	Linear misalignment – Slivellamento
W	Tungsten inclusion – Inclusioni tungsteno
IN	Root concavity – Insellamento
C	Lack of fusion – Mancanza di fusione
D	Lack of penetration – Mancanza di penetrazione
K	Crater – Cratere
EA	Longitudinal – Longitudinale
EB	Transversal – Trasversale

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ATTACHMENT 4

Report Dye Penetrant Test

ROSETTI MARINO Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2025
FOGLIO N° / sheet n°: 1 DI / of

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
122A70C	PP Piping	SAIPEM SPA / MELLITAH OIL & GAS B.V	1462567-1463781-1463746	BOURI GAS UTILIZATION PROJECT

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No	FASE ITP / Phase
3417-000-Q-PT-SAI-11075 Rev. 03	20377.ENG.MME.STD	20377.ENG.MME.STD Table 5	3417-000-Q-QB-SAI-11062 Rev. 02	/

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	N1A	FIN - Weld Completion	☐ PRIMA DEL TT / Before PWHT ☐ DOPO IL TT / After PWHT ☒ NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
☐ MAT. BASE / Parent Material ☒ SALDATURA / Weld Metal	ASTM A815 UNS S31803	10 °C to 50 °C	IDL-QCI-LP - 0003 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

☒ NATURALE / Natural light ☒ ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: LAMP
☐ LAMPADA DI WOOD / Wood Lamp ☐ ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

☒ COME SALDATO / As welded ☒ SPAZZOLATO / As brushed ☐ LAV. DI MACCHINA / As machined ☐ COME CALANDRATO / As calendered ☐ ALTRO / Other
☐ MOLATO / As ground ☐ COME LAMINATO / As rolled ☐ GREZZO / As forged ☐ VERNICIATO / As painted

PILITURA PRELIMINARE / Preliminary Cleaning	PULITORE PRELIMINARE (Marca e tipo) / Cleaner (trade and type)	Batch N.
☐ ACQUA / Water ☐ STRACCI / Rags ☒ SOLVENTE / Solvent ☐ ALTRO / Other	BC1 (ELITE)	B230905s

PENETRANTE (Marca e tipo) Penetrant (trade and type)	Batch N.	APPLICAZIONE PENETRANTE / Penetrant Application
K71B2p (ELITE) WATER SOLUBLE	230506hts	Spray

RIMOZIONE PENETRANTE / Removal penetrant	PULITORE PENETRANTE (Marca e tipo) Penetrant Remover (trade and type)
☒ ACQUA / Water ☐ STRACCI / Rags ☐ SOLVENTE / Solvent ☐ ALTRO / Other	water + rags

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	231220W150s	natural at ambient temperature

APPLICAZIONE RIVELATORE / Developer application	TEMPO MINIMO PENETRAZIONE / Minimum Penetrating time (minuti/minutes)
Spray	10

TEMPO DI LETTURA / Checking time (minuti/minutes)	INTERVALLO APPLICAZIONE RIVELATORE/time interval developer application
min.10 max 30	max max 5 minutes

PULITORE POST-CONTROLLO / Cleaner after examination

☒ ACQUA / Water ☒ STRACCI / Rags ☐ SOLVENTE / Solvent ☐ ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
009030	8	122A70C-FLD-PP-DI- 190053 / 1		12,00 in	9,53 mm	BW	1.017 Mt	A

REPORTS NUMBER & WELD TRACEABILITY

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
Company: CONTROL NTROL snc per Rosetti Marino SpA	Quality Control Dept. Ettore Lolli			

OD-QCI-37 Rev. 2020-00

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Report Magnetic Test

ROSETTI MARINO Group of Companies

NDT ACTIVITIES - TEST REPORT
RAPPORTO DI ESAME MAGNETOSCOPICO
MAGNETIC PARTICLE TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2025
FOGLIO / Sheet n° 1 of

CLIENTE / Client	COMMESSA N°/Job No	DISCIPLINA / Discipline	ORDINE N°/ Order N°	PROGETTO/Project
LIVERPOOL BAY CCS LIMITED	124A50D	ST Structure		DOUGLAS DECK

CODICE - PROCEDURA Code - Procedure	SPECIFICA Specification	ACCETTABILITA' Acceptance levels	INSPECTION TEST PLAN ITP No	FASE ITP Phase ITP
105600CBPC0320 2 Rev. 02	08833.ENG.MME.SDS Rev.7	08833.ENG.MME.SDS Rev.7	105600CBQB03004 Rev.02	9.8

TECNICA DI SALDATURA Welding process	PROC. di SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
FCAW	2A	FIN Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO MT MT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	API 5L Gr.X52 EN 10025 S355 J2	22°C	IDL-QCI-MT - 0006 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE Naturall light [ ] ARTIFICIALE Artificial light
TIPO ILLUMINATORE / Lighting equipment: NONE
[ ] LAMPADA DI WOOD Wood Lamp [ ] ALTRO Other
ILLUMINAZIONE / Lighting intensity: >= 500 Lux

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO As welded [X] SPAZZOLATO As brushed [ ] LAVORATO DI MACCHINA As machined [ ] COME CALANDRATO As formed
[ ] MOLATO As ground [ ] COME LAMINATO As rolled [ ] GREZZO As forged [ ] ALTRO Other

TECNICA DI MAGNETIZZAZIONE / Magnetization technique

[ ] PUNTALI Prods [X] GIOGO Yoke [ ] BOBINA Coil [ ] CONDUTTORE CENTRALE Neutral Wire [ ] ALTRO Other

SMAGNETIZZAZIONE FINALE/ Final Demagnetizzazion	CORRENTE/ Current	INTENSITA'/ Intensity
NOT APPLICABLE	A.C	2,4+3,9 kA/m S.N.S180423347

DISTANZA PUNTALI / Pole Spacing (mm)	TIPO APPARECCHIO/ Magnetic Equipment	NUMERO DI SERIE / Serial number
200	JAY-PAC 110V	JY1-1173

PARTICELLE MAGNETICHE UTILIZZATE PER L'ISPEZIONE / Magnetic particles used for inspection

TIPOLOGIA CONTROLLO Examination kind: [ ] SECCO / Dry [X] UMIDO / Wet [ ] FLUORESCENTE/Fluorescent
COLORE Color: [ ] BLU / Blue [ ] ROSSA / Red [X] NERA / Black [ ] ALTRO / Other

MARCA / Trade	TIPO / Type	Batch N.
ELITE	BW2	7306s

VERNICE DI CONTRASTO / Surface contrast paint	MARCA / Trade	TIPO / Type	Batch N.
White	ELITE	WBL5	U250108s

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA Weld Number	DISEGNO / Sheet DWG / sheet	MARCA Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO Result
000681	7	124A50D-FDL-ST-DD- 36 / 1	DMNP034	508,000 mm	12,70 mm	T	0,920 Mt	A
000682	8	124A50D-FDL-ST-DD- 36 / 1	DMNP034	508,000 mm	12,70 mm	T	0,920 Mt	A
000683	9	124A50D-FDL-ST-DD- 36 / 1	DMNP034	508,000 mm	12,70 mm	T	0,920 Mt	A
000684	10	124A50D-FDL-ST-DD- 36 / 1	DMNP034	508,000 mm	12,70 mm	T	0,920 Mt	A

REPORTS NUMBER & WELD TRACEABILITY

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third party inspector
NICO TOMASI Company: CONTRA II Lev MTPT-VT-UTTOFD PA Operatore Tecnico/B UNI EN ISO 9712	PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT TOFD			

MOD-QCI-36 2020-00

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Report Ultrasonic Test

ROSETTI MARINO Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-06-2025
FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
124A50D	DOUGLAS DECK	LIVERPOOL BAY CCS LIMITED		ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
105600CBPC03205 Rev. 02	08833.ENG.MME.SDS Rev.7	IDL-QCI-UT - 0161 Rev. 00

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
08833.ENG.MME.SDS Rev.7	FIN Weld Completion	105600CBQB03004 Rev. 01	9.8

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355 K2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded
☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 34	100% Acceptable	I.I.W.-V1-V2	SDH 1,6mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	70°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	45°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (Weld ex)	5746350569	4	3,5x10	0°	0°	/	41.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000086	1	124A50D-FDL-ST-DD- 7 / 1	DCNP005	700,000 MM	20,00	2A	FCAW	0.700 Mt	A
000087	2	124A50D-FDL-ST-DD- 7 / 1	DCNP005	700,000 MM	20,00	2A	FCAW	0.700 Mt	A

REPORTS NUMBER & WELD TRACEABILITY

NOTE / Remarks: Piece temperature: from 15°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

MOD-QCI-34 Rev. 2020-00

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Report Radiographic Test

ROSETTI MARINO Group of Companies

NDT ACTIVITIES - TEST REPORT

RAPPORTO DI ESAME RADIOGRAFICO
RADIOGRAPHIC TEST REPORT

DATA RAPPORTO / Report Date: 29-07-2025
FOGLIO / sheet n°: 1 of 1

COMMESSA / Job	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
124A50D	DOUGLAS DECK	LIVERPOOL BAY CCS LIMITED		ST Structure

WPS	TECNICA SALD. / Welding Process	CODICE SPECIFICA / Standard Code	CODICE PROCEDURA / Procedure code	ISTRUZ. DI LAVORO RT / RT Work Instruction
1D	GMAW+SAW	08833.ENG.MME.SDS Rev.7	105600CBPC03204 Rev. 02	IDL-QCI-RT - 0036 Rev. 00

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
08833.ENG.MME.SDS Rev.7	105600CBQB03004 Rev. 02	/

FASE DEL CONTROLLO / Examination Phase	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
FIN Weld Completion	EN 10225 S460	☐ PRIMA del TT / Before PWHT ☐ DOPO TT / After PWHT ☒ NON APPLICAB. / Not Applicable

RADIOGRAPHIC TECHNIQUE DETAILS

Sorgente / Source	I.Q.I. Tipo / I.Q.I. Type	I.Q.I. Sensibilità richiesta / I.Q.I. Required Sensitivity	I.Q.I. Posizione / I.Q.I. Location
IR 192	ASTM 1B	Wire n.12	Source side

Unità / Unit	Tipo Film + Marca / Film type + Brand	Pellicole per cassetta (Nr) Films box	Schermi di rinforzo (mm) Intensifying screens Front-Back	Sviluppo / Development
Iridium 192	Kodak T200	2	0,10X0,10	Automatic

Energia+Corrente / Energy+Current Attività / Activity	Nr. Films / Films Nr.	Tecnica radiografica / Radiographic techniques	Densità film / Film density	Penombra Ug (mm) Unsharpness geom. Ug	Data esposizione / Exposure date
25	1	Single Wall	2,0 - 4,0	0,17	29-07-2025

Macchia Focale (mm) Focal Spot	Distanza sorgente-oggetto (mm) Distance Source-Object	Distanza lato sorgente oggetto-pellicola (mm) Distance from Source side object to film	Distanza focal (mm) Focal distance	Tempo di esposiz. Exposure time	No. di esposizioni Nr. of exposures
2,5	375 mm	25.00	400 mm	4.00 min.	1

OGGETTO CONTROLLATO / Tested object

COMPONENTE / Item: ITEM

RAPP. Report	SALD Weld	DISEGNO Drawing	Fg Sh	MARCA Mark	CIANF. Bevel	DIMENSIONE Dimension	Sp. Thk (mm)	POS. Film pos.	INDICAZIONI Indications	ESITO Result	SALDATORI Welders
000042	2	124A50D-FDL-ST-DD- 297	1	DSTABB004	X	1,220.0	25.00	0-1		A	CB-OS

REPORT NUMBER & WELD TRACEABILITY

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' QC Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
Controllo CONFORME				

Riccardo Artisani
II Level VT-MT-PT-RT
ISO 9712/SNT-TC-1A

Operatore: Artisani Riccardo

14 AGO. 2025

MOD-QCI-33 2019-00

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ATTACHMENT 5

Report Ultrasonic Test with indication

ROSETTI MARINO Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-06-2025
FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
124A50D	DOUGLAS DECK	LIVERPOOL BAY CCS LIMITED		ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
105600CBPC03205 Rev. 02	08833.ENG.MME.SDS Rev.7	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
08833.ENG.MME.SDS Rev.7	FIN Weld Completion	105600CBQB03004 Rev. 02	9.8

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 K2 EN 10025 S355 ML0	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded
☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
KRAUTKRAMER	KKUSM36	19027618	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 34	100% Acceptable	I.I.W.-V1-V2	SDH 1,6mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE (MAT BASE)	73147	4	3,5x10	0°	0°	/	37.00	/	/	LONG
GE (Weld ex)	73147	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
KK	54483	2	14x14	45°	45°	11	38.90	+6	+4	SHEAR
KK	54536	2	14x14	60°	55°	12	40.10	+6	+4	SHEAR
KK	54844	2	14x14	70°	68°	12	40.30	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000174	1	124A50D-FDL-ST-DD- 2 / 1	DCNP020	2.121,000 MM	40,00	2M	MCAW	4.400 Mt	R

REPORTS NUMBER & WELD TRACEABILITY

RESULT REPAIR

NOTE / Remarks: Piece temperature: from 16°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICOLA QUAGLIA CONTROLTECH SNC VT-PT-MT-RT-UT-TOFD/PA Lev. 2 UNI EN ISO 9712 VT-PT-MT-RT-UT-PAUT-TOFD-TKY-TC-1A CSWIP Welding Inspector	PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT TOFD			

MOD-QCI-34 Rev. 2020-00

Continued on the second page with the detail of the indication

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Indication report

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000174	Pag 2 di 2
		Data/date: 16/06/25	Rev. 0
Progetto / Project	*DOUGLAS DECK*	Commessa / Job	124A50D
Cliente / Client	*LIVERPOOL BAY CCS LIMITED*	Disegno / Dwg.	2

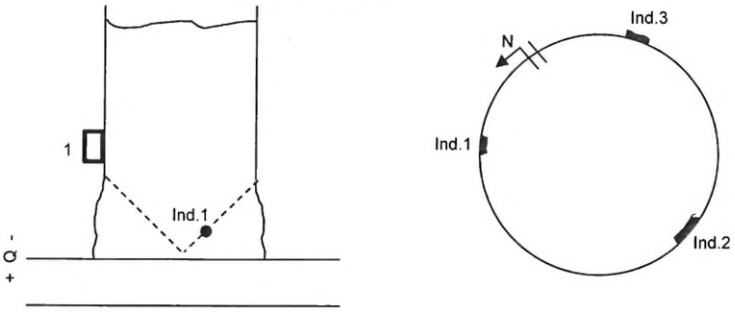
SCHIZZO - Sketch

Scanning Position

1 ☒ 60°
2 ☐
3 ☐
4 ☐
5 ☐
6 ☐
7 ☐

2/DCNP020/ W1 — WELD REFERENCE

CERTIFICATE REFERENCE



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. Nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+6 dB	/	30	28	/	-15	/	/	140	N	150	1	R	55°	PLANAR
2	+7 dB	/	290	25	/	-15	/	/	1920	N	150	1	R	55°	PLANAR
3	+6 dB	/	100	20	/	-15	/	/	3700	N	150	1	R	55°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
NICOLA QUAGLIA QUAGLIA CONTROL SNC VT-PT-MT-RT-UT-TOFD/PA Lev. 2 UNI EN ISO 9712 VT-PT-MT-UT Lev 2 SNT TC-1A CSWIP Welding Inspector	PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT-TOFD		

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3 WELDING REGISTER – UT REPORTS

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Welding Register

Job	123A90	BASE LOAD POWER HUB (BLPH)			
From Discipline	ST	Structure			
To Discipline	ST	Structure			
Drawings		**From**	0	**To**	0
Sheet		**From**	0	**To**	0
Marks		**From**		**To**	
Location		**From**		**To**	
Material		**From**		**To**	
Welds Execution		**From**		**To**	
Welds Acceptance		**From**		**To**	
Report Date		**From**		**To**	
Prefabrication	All				
Welding Status	All				
Subcontractor					
Subassembly		**From**		**To**	
ITEM					
ADDITIONAL PARAMETERS	**LINE**	**From**		**To**	
	SPOOL	**From**		**To**	
		From		**To**	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/36/1/CWBOLL01		**00**	**21-05-2025**	**478**	**AX25**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,688 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-05-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002759		Acceptable					31-05-2025		
3/36/1/CWBOLL02		**00**	**21-05-2025**	**478**	**AX25**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,688 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-05-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002760		Acceptable					31-05-2025		

Totals per DWG	**36**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**1,38 m**	**2 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,38 m**	**2 Nr. Welds**
		Accepted	**1,38 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/200/1/PE1N		**0**	**10-09-2024**	**421**	**AX427**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	000013		Acceptable				12-09-2024		
1/200/1/PE1S		**0**	**26-09-2024**	**432**	**AX427**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	100 %	000055		Acceptable				10-10-2024		
1/200/1/PE2N		**0**	**10-09-2024**	**421**	**AX427**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	000014		Acceptable				12-09-2024		
1/200/1/PE2S		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	100 %	000056		Acceptable				10-10-2024		
1/200/1/PI1N		**0**	**10-09-2024**	**421**	**AX426**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	000015		Acceptable				12-09-2024		
1/200/1/PI1S		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	100 %	000057		Acceptable				10-10-2024		
1/200/1/PI2N		**0**	**10-09-2024**	**421**	**AX426**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	000016		Acceptable				12-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/200/1/PI2S		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**200,00 mm**	**15,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	100 %	000058		Acceptable					10-10-2024		

Totals per DWG	**200**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**2,00 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,00 m**	**8 Nr. Welds**
		Accepted	**2,00 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Techn. Weld.	Material	Defect length	WPS	CND date	Techn. Weld.	NOTE	Type Cont.	Accept. Date
1/205/1/PDE1			**1**		**15-05-2024**		**296**	**AX90**			**PL**		**500,00 mm**		**25,00 mm**		**K**		**0,500 m**		**M**		**C.S.**		**2A**	**FCAW**			**T**	**17-05-2024**
	II	UT		FIN		Weld Completion			IDL-QCI-UT 0223 02	RS		100 %		000005				Acceptable								17-05-2024				
1/205/1/PDE2			**1**		**15-05-2024**		**296**	**AX416**			**PL**		**500,00 mm**		**25,00 mm**		**K**		**0,500 m**		**M**		**C.S.**		**2A**	**FCAW**			**T**	**17-05-2024**
	II	UT		FIN		Weld Completion			IDL-QCI-UT 0223 02	RS		100 %		000006				Acceptable								17-05-2024				
1/205/1/PDE3			**1**		**18-04-2024**		**228**	**AX427**			**PL**		**500,00 mm**		**25,00 mm**		**K**		**0,500 m**		**M**		**C.S.**		**2A**	**FCAW**			**T**	**19-04-2024**
	II	UT		FIN		Weld Completion			IDL-QCI-UT 0223 02	RS		100 %		000001				Acceptable								19-04-2024				
1/205/1/PDE4			**1**		**18-04-2024**		**228**	**AX25**			**PL**		**500,00 mm**		**25,00 mm**		**K**		**0,500 m**		**M**		**C.S.**		**2A**	**FCAW**			**T**	**19-04-2024**
	II	UT		FIN		Weld Completion			IDL-QCI-UT 0223 02	RS		100 %		000002				Acceptable								19-04-2024				
1/205/1/PDE5			**1**		**15-05-2024**		**296**	**AX414**			**PL**		**500,00 mm**		**25,00 mm**		**K**		**0,500 m**		**M**		**C.S.**		**2A**	**FCAW**			**T**	**17-05-2024**
	II	UT		FIN		Weld Completion			IDL-QCI-UT 0223 02	RS		100 %		000007				Acceptable								17-05-2024				
1/205/1/PDE6			**1**		**16-05-2024**		**295**	**AX414**			**PL**		**500,00 mm**		**25,00 mm**		**K**		**0,500 m**		**M**		**C.S.**		**2A**	**FCAW**			**T**	**17-05-2024**
	II	UT		FIN		Weld Completion			IDL-QCI-UT 0223 02	RS		100 %		000008				Acceptable								17-05-2024				
1/205/1/PDE7			**1**		**18-04-2024**		**228**	**AX414**			**PL**		**500,00 mm**		**25,00 mm**		**K**		**0,500 m**		**M**		**C.S.**		**2A**	**FCAW**			**T**	**19-04-2024**
	II	UT		FIN		Weld Completion			IDL-QCI-UT 0223 02	RS		100 %		000003				Acceptable								19-04-2024				

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/205/1/PDE8		**1**	**18-04-2024**	**228**	**AX414**		**PL**	**500,00 mm**	**25,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-04-2024**
	II	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000004		Acceptable					19-04-2024		

Totals per DWG	**205**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**4,00 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,00 m**	**8 Nr. Welds**
		Accepted	**4,00 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/207/1/PDPAU01	**0**	**16-07-2024**	**10**	**RM82**			**PL**	**284,00 mm**	**30,00 mm**	**K**	**0,284 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	000009		Acceptable				17-07-2024		
1/207/1/PDPAU02	**0**	**16-07-2024**	**10**	**RM90**			**PL**	**284,00 mm**	**30,00 mm**	**K**	**0,284 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	000010		Acceptable				17-07-2024		
1/207/1/PDPAU03	**0**	**24-07-2024**	**18**	**RM84**			**PL**	**284,00 mm**	**30,00 mm**	**K**	**0,284 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VR	100 %	000011		Acceptable				26-07-2024		
1/207/1/PDPAU04	**0**	**24-07-2024**	**18**	**RM87**			**PL**	**284,00 mm**	**30,00 mm**	**K**	**0,284 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VR	100 %	000012		Acceptable				26-07-2024		

Totals per DWG 207

Prefabrication	**0,00 m**	**0 Nr. Welds**
Erection	**1,12 m**	**4 Nr. Welds**
Offshore	**0,00 m**	**0 Nr. Welds**
Performed	**1,12 m**	**4 Nr. Welds**
Accepted	**1,12 m**	**4 Nr. Welds**
Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/211/1/PASPD01	**0**	**18-10-2024**	**2**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	000059		Acceptable				21-10-2024		
1/211/1/PASPD02	**0**	**18-10-2024**	**2**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	000060		Acceptable				21-10-2024		
1/211/1/PASPD03	**0**	**18-10-2024**	**2**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	000061		Acceptable				21-10-2024		
1/211/1/PASPD04	**0**	**18-10-2024**	**2**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	000062		Acceptable				21-10-2024		
1/211/1/PASPD05	**0**	**27-09-2024**	**1**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	000045		Acceptable				02-10-2024		
1/211/1/PASPD06	**0**	**27-09-2024**	**1**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	000046		Acceptable				02-10-2024		
1/211/1/PASPD07	**0**	**27-09-2024**	**1**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	000047		Acceptable				02-10-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/211/1/PASPD08	**0**	**27-09-2024**	**1**	**AZ006**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	000048		Acceptable				02-10-2024		
1/211/1/PASPD09	**0**	**20-09-2024**	**1**	**MCI20**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	000041		Acceptable				26-09-2024		
1/211/1/PASPD10	**0**	**20-09-2024**	**1**	**MCI20**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	000042		Acceptable				26-09-2024		
1/211/1/PASPD11	**0**	**20-09-2024**	**1**	**MCI20**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	000043		Acceptable				26-09-2024		
1/211/1/PASPD12	**0**	**20-09-2024**	**1**	**MCI20**			**PL**	**300,00 mm**	**25,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	000044		Acceptable				26-09-2024		

Totals per DWG	**211**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,60 m**	**12 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,60 m**	**12 Nr. Welds**
		Accepted	**3,60 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/215/1/LPPAU01	**0A**	**25-09-2024**	**25**	**RM85**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000017		Acceptable				26-09-2024		
2/215/1/LPPAU01	**0A**	**25-09-2024**	**25**	**RM85**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000018		Acceptable				26-09-2024		
7/215/1/LPPAU01	**0A**	**25-09-2024**	**25**	**RM85**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000019		Acceptable				26-09-2024		
8/215/1/LPPAU01	**0A**	**25-09-2024**	**25**	**RM85**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000020		Acceptable				26-09-2024		
9/215/1/LPPAU01	**0A**	**27-09-2024**	**28**	**RM81**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**1,117 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000049		Acceptable				01-10-2024		
1/215/1/LPPAU02	**0A**	**25-09-2024**	**25**	**RM92**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000021		Acceptable				26-09-2024		
2/215/1/LPPAU02	**0A**	**25-09-2024**	**25**	**RM92**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000022		Acceptable				26-09-2024		
7/215/1/LPPAU02	**0A**	**25-09-2024**	**25**	**RM92**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000023		Acceptable				26-09-2024		
8/215/1/LPPAU02	**0A**	**25-09-2024**	**25**	**RM92**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000024		Acceptable				26-09-2024		
9/215/1/LPPAU02	**0A**	**27-09-2024**	**28**	**RM88**			**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**1,117 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000050		Acceptable				01-10-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/215/1/LPPAU03		**0A**	**25-09-2024**	**26**	**RM81**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000029		Acceptable				26-09-2024		
2/215/1/LPPAU03		**0A**	**25-09-2024**	**26**	**RM81**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000030		Acceptable				26-09-2024		
7/215/1/LPPAU03		**0A**	**25-09-2024**	**26**	**RM81**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000031		Acceptable				26-09-2024		
8/215/1/LPPAU03		**0A**	**25-09-2024**	**26**	**RM81**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000032		Acceptable				26-09-2024		
9/215/1/LPPAU03		**0A**	**27-09-2024**	**28**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**1,117 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000051		Acceptable				01-10-2024		
1/215/1/LPPAU04		**0A**	**25-09-2024**	**26**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000025		Acceptable				26-09-2024		
2/215/1/LPPAU04		**0A**	**25-09-2024**	**26**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000026		Acceptable				26-09-2024		
7/215/1/LPPAU04		**0A**	**25-09-2024**	**26**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000027		Acceptable				26-09-2024		
8/215/1/LPPAU04		**0A**	**25-09-2024**	**26**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000028		Acceptable				26-09-2024		
9/215/1/LPPAU04		**0A**	**27-09-2024**	**28**	**RM81**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**1,117 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000052		Acceptable				01-10-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/215/1/LPPAU05		**0A**	**26-09-2024**	**27**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000033		Acceptable				27-09-2024		
2/215/1/LPPAU05		**0A**	**26-09-2024**	**27**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000034		Acceptable				27-09-2024		
7/215/1/LPPAU05		**0A**	**26-09-2024**	**27**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000035		Acceptable				27-09-2024		
8/215/1/LPPAU05		**0A**	**26-09-2024**	**27**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000036		Acceptable				27-09-2024		
9/215/1/LPPAU05		**0A**	**27-09-2024**	**28**	**RM90**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**1,117 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000053		Acceptable				01-10-2024		
1/215/1/LPPAU06		**0A**	**26-09-2024**	**27**	**RM85**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000037		Acceptable				27-09-2024		
2/215/1/LPPAU06		**0A**	**26-09-2024**	**27**	**RM85**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000038		Acceptable				27-09-2024		
7/215/1/LPPAU06		**0A**	**26-09-2024**	**27**	**RM85**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000039		Acceptable				27-09-2024		
8/215/1/LPPAU06		**0A**	**26-09-2024**	**27**	**RM85**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**0,180 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-09-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000040		Acceptable				27-09-2024		
9/215/1/LPPAU06		**0A**	**27-09-2024**	**28**	**RM88**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**1,117 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-10-2024**
II	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000054		Acceptable				01-10-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/215/1/LPPAU06	**0A**	**27-09-2024**	**28**	**RM88**		**PIPE**	**355,00 mm**	**15,88 mm**	**1/2V**	**1,117 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-10-2024**

Totals per DWG	**215**	**Prefabrication**	**0,00 m** **0 Nr. Welds**
		Erection	**11,04 m** **30 Nr. Welds**
		Offshore	**0,00 m** **0 Nr. Welds**
		Performed	**11,04 m** **30 Nr. Welds**
		Accepted	**11,04 m** **30 Nr. Welds**
		Repaired	**0,00 m** **0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM METHODS

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/218/1/BTPLFT-01		**0**	**26-11-2024**	**11**	**OM15**		**PIPE**	**508,00 mm**	**30,00 mm**	**1/2V**	**1,595 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
II		UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	000063		Acceptable				27-11-2024		
2/218/1/BTPLFT-02		**0**	**26-11-2024**	**11**	**OM315**		**PIPE**	**508,00 mm**	**30,00 mm**	**1/2V**	**1,595 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
II		UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	000064		Acceptable				27-11-2024		

Totals per DWG	**218**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,20 m**	**2 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,20 m**	**2 Nr. Welds**
		Accepted	**3,20 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90012/1/CWLPG013	**1**	**08-02-2024**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90012/1/CWLPG013	**1**	**08-02-2024**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
3/90012/1/CWLPG013	**1**	**08-02-2024**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															

Totals per DWG	**90012**	**Prefabrication**	**1,55 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,55 m**	**3 Nr. Welds**
		Accepted	**1,55 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90013/1/CWLPG014		**0**	**07-02-2024**	**5**	**AX25**	**Repair done**	**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**		**BW**	**07-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable						
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03 MM	100 %	000479		Acceptable				07-03-2024		
Ref. dossier SCANDIUZZI - 1723000223																
2/90013/1/CWLPG014		**0**	**07-02-2024**				**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**		**BW**	**19-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
3/90013/1/CWLPG014		**0**	**07-02-2024**				**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**P**	**C.S.**		**BW**	**19-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																

Totals per DWG	**90013**	**Prefabrication**	**1,55 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,55 m**	**3 Nr. Welds**
		Accepted	**1,55 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90022/1/CWLPG023		**0**	**07-02-2024**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**			**BW**	**07-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																
2/90022/1/CWLPG023		**0**	**07-02-2024**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**			**BW**	**07-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																
3/90022/1/CWLPG023		**0**	**07-02-2024**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**P**	**C.S.**			**BW**	**07-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																

Totals per DWG	**90022**	**Prefabrication**	**1,55 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,55 m**	**3 Nr. Welds**
		Accepted	**1,55 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90049/1/CWLNO001		**0**	**07-02-2024**				**PIPE**	**406,40 mm**	**19,05 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**			**T**	**07-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723000223

Totals per DWG	**90049**	**Prefabrication**	**1,28 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,28 m**	**1 Nr. Welds**
		Accepted	**1,28 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90050/1/CWLNO002		**0**	**07-02-2024**				**PIPE**	**406,40 mm**	**19,05 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**			**T**	**07-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723000223

Totals per DWG	**90050**	**Prefabrication**	**1,28 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,28 m**	**1 Nr. Welds**
		Accepted	**1,28 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90051/1/CWLNO003		**0**	**07-02-2024**				**PIPE**	**406,40 mm**	**19,05 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**			**T**	**07-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723000223

Totals per DWG	**90051**	**Prefabrication**	**1,28 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,28 m**	**1 Nr. Welds**
		Accepted	**1,28 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Cons	NOTE	Accept. Date
1/90052/1/CWLNO004			**0**		**07-02-2024**						**PL**		**480,00 mm**		**20,00 mm**		**K**		**0,480 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
2/90052/1/CWLNO004			**0**		**07-02-2024**						**PL**		**480,00 mm**		**20,00 mm**		**K**		**0,480 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
3/90052/1/CWLNO004			**0**		**07-02-2024**						**PL**		**280,00 mm**		**15,00 mm**		**K**		**0,273 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
4/90052/1/CWLNO004			**0**		**07-02-2024**						**PL**		**280,00 mm**		**15,00 mm**		**K**		**0,273 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
6/90052/1/CWLNO004			**0**		**07-02-2024**						**PL**		**350,00 mm**		**15,00 mm**		**K**		**0,289 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
7/90052/1/CWLNO004			**0**		**07-02-2024**						**PL**		**350,00 mm**		**15,00 mm**		**K**		**0,223 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
9/90052/1/CWLNO004			**0**		**07-02-2024**						**PIPE**		**273,10 mm**		**11,13 mm**		**1/2V**		**0,182 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
13/90052/1/CWLNO004			**0**		**07-02-2024**						**PIPE**		**273,10 mm**		**11,13 mm**		**1/2V**		**0,183 m**		**P**	**C.S.**						**T**		**07-02-2024**
	I	UT				FIN	Weld Completion					100 %						Acceptable												
	Ref. dossier SCANDIUZZI - 1723000223																													
17/90052/1/CWLNO004			**0**		**07-02-2024**						**PIPE**		**273,10 mm**		**11,13 mm**		**1/2V**		**0,182 m**		**P**	**C.S.**						**T**		**07-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
17/90052/1/CWLNO004	**0**	**07-02-2024**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,182 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
21/90052/1/CWLNO004	**0**	**07-02-2024**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															

Totals per DWG	**90052**	**Prefabrication**	**2,73 m**	**10 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,73 m**	**10 Nr. Welds**
		Accepted	**2,73 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90053/1/CWLNO005	**0**	**07-02-2024**			**PL**		**480,00 mm**	**20,00 mm**	**K**	**0,480 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90053/1/CWLNO005	**0**	**07-02-2024**			**PL**		**480,00 mm**	**20,00 mm**	**K**	**0,480 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
3/90053/1/CWLNO005	**0**	**07-02-2024**			**PL**		**350,00 mm**	**15,00 mm**	**K**	**0,289 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90053/1/CWLNO005	**0**	**07-02-2024**			**PL**		**350,00 mm**	**15,00 mm**	**K**	**0,223 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90053/1/CWLNO005	**0**	**07-02-2024**			**PL**		**280,00 mm**	**15,00 mm**	**K**	**0,273 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
7/90053/1/CWLNO005	**0**	**07-02-2024**			**PL**		**280,00 mm**	**15,00 mm**	**K**	**0,273 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
9/90053/1/CWLNO005	**0**	**07-02-2024**			**PIPE**		**273,10 mm**	**11,13 mm**	**1/2V**	**0,182 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
13/90053/1/CWLNO005	**0**	**07-02-2024**			**PIPE**		**273,10 mm**	**11,13 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90053/1/CWLNO005	**0**	**07-02-2024**			**PIPE**		**273,10 mm**	**11,13 mm**	**1/2V**	**0,182 m**	**P**	**C.S.**		**T**	**07-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
17/90053/1/CWLNO005		**0**	**07-02-2024**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,182 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																
21/90053/1/CWLNO005		**0**	**07-02-2024**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																

Totals per DWG	**90053**	**Prefabrication**	**2,73 m**	**10 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,73 m**	**10 Nr. Welds**
		Accepted	**2,73 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90054/1/CWLNO006		**0**	**07-02-2024**				**PIPE**	**406,40 mm**	**19,05 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**			**T**	**07-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723000223

Totals per DWG	**90054**	**Prefabrication**	**1,28 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,28 m**	**1 Nr. Welds**
		Accepted	**1,28 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90055/1/CWLNO007		**0**	**27-03-2024**				**PIPE**	**273,10 mm**	**15,09 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**			**T**	**27-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																	

Totals per DWG	**90055**	**Prefabrication**	**0,86 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,86 m**	**1 Nr. Welds**
		Accepted	**0,86 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90056/1/CWLNO008		**0**	**07-02-2024**				**PIPE**	**273,10 mm**	**15,09 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**			**T**	**07-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723000223

Totals per DWG	**90056**	**Prefabrication**	**0,86 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,86 m**	**1 Nr. Welds**
		Accepted	**0,86 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
3/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
4/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
7/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**27-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
17/90057/1/CWLNO009		**0**	**27-03-2024**			**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**		**T**	**27-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
17/90057/1/CWLNO009		**0**	**27-03-2024**				**PL**	**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**			**T**	**27-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																	
18/90057/1/CWLNO009		**0**	**27-03-2024**				**PL**	**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**			**T**	**27-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 /																	

Totals per DWG	**90057**	**Prefabrication**	**7,10 m**	**10 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,10 m**	**10 Nr. Welds**
		Accepted	**7,10 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
3/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
4/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
7/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**27-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
17/90058/1/CWLNO010	**1**	**27-03-2024**			**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**		**T**	**27-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05

ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
17/90058/1/CWLNO010		**1**	**27-03-2024**					**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**			**T**	**27-03-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																		
18/90058/1/CWLNO010		**1**	**27-03-2024**					**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**			**T**	**27-03-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																		
25/90058/1/CWLNO010		**1**	**31-05-2024**	**106**	**AX414**			**PL**		**669,00 mm**	**30,00 mm**	**1/2V**	**0,950 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		100 %	001443		Acceptable					03-06-2024		
26/90058/1/CWLNO010		**1**	**31-05-2024**	**106**	**AX414**			**PL**		**669,00 mm**	**30,00 mm**	**1/2V**	**0,950 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		100 %	001444		Acceptable					03-06-2024		
27/90058/1/CWLNO010		**1**	**31-05-2024**	**106**	**AX414**			**PL**		**669,00 mm**	**30,00 mm**	**1/2V**	**0,697 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		100 %	001445		Acceptable					03-06-2024		
28/90058/1/CWLNO010		**1**	**29-05-2024**	**107**	**AX414**			**PL**		**327,80 mm**	**30,00 mm**	**1/2V**	**0,171 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		100 %	001440		Acceptable					03-06-2024		
30/90058/1/CWLNO010		**1**	**31-05-2024**	**106**	**AX414**			**PL**		**326,70 mm**	**30,00 mm**	**1/2V**	**0,171 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		100 %	001446		Acceptable					03-06-2024		
32/90058/1/CWLNO010		**1**	**31-05-2024**	**106**	**AX414**			**PL**		**326,70 mm**	**30,00 mm**	**1/2V**	**0,950 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		100 %	001447		Acceptable					03-06-2024		
33/90058/1/CWLNO010		**1**	**29-05-2024**	**107**	**AX414**			**PL**		**327,80 mm**	**30,00 mm**	**1/2V**	**0,950 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		100 %	001441		Acceptable					03-06-2024		
34/90058/1/CWLNO010		**1**	**27-05-2024**	**105**	**AX90**			**PL**		**142,00 mm**	**25,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	001423		Acceptable					28-05-2024		
35/90058/1/CWLNO010		**1**	**27-05-2024**	**105**	**AX90**			**PL**		**142,00 mm**	**25,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	001424		Acceptable					28-05-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
35/90058/1/CWLNO010		**1**	**27-05-2024**	**105**	**AX90**		**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	100 %	001425		Acceptable				28-05-2024		
36/90058/1/CWLNO010		**1**	**27-05-2024**	**105**	**AX90**		**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,235 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	100 %	001426		Acceptable				28-05-2024		
37/90058/1/CWLNO010		**1**	**27-05-2024**	**105**	**AX90**		**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,235 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	100 %	001427		Acceptable				28-05-2024		
38/90058/1/CWLNO010		**1**	**27-05-2024**	**105**	**AX90**		**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,235 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	100 %	001428		Acceptable				28-05-2024		
39/90058/1/CWLNO010		**1**	**27-05-2024**	**105**	**AX90**		**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,235 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	100 %	001429		Acceptable				28-05-2024		

Totals per DWG	**90058**	**Prefabrication**	**14,50 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**14,50 m**	**23 Nr. Welds**
		Accepted	**14,50 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
3/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
7/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
9/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**07-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
17/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**	**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
18/90059/1/CWLNO011	**0**	**07-02-2024**			**PL**	**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															

Totals per DWG	**90059**	**Prefabrication**	**7,10 m**	**10 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,10 m**	**10 Nr. Welds**
		Accepted	**7,10 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,550 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
3/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
7/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
9/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**716,40 mm**	**15,00 mm**	**1/2V**	**0,723 m**	**P**	**C.S.**		**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**07-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
17/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**	**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
18/90060/1/CWLNO012	**0**	**07-02-2024**			**PL**	**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**			**T**	**07-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															

Totals per DWG	**90060**	**Prefabrication**	**7,10 m**	**10 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,10 m**	**10 Nr. Welds**
		Accepted	**7,10 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90061/1/CWLNO013		**1**	**27-03-2024**				**PIPE**	**323,90 mm**	**15,90 mm**	**1/2V**	**1,017 m**	**P**	**C.S.**			**T**	**27-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723001792 / 93

Totals per DWG	**90061**	**Prefabrication**	**1,02 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,02 m**	**1 Nr. Welds**
		Accepted	**1,02 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90062/1/CWLNO014		**1**	**08-02-2024**				**PIPE**	**323,90 mm**	**15,90 mm**	**1/2V**	**1,017 m**	**P**	**C.S.**			**T**	**08-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723000223

Totals per DWG	**90062**	**Prefabrication**	**1,02 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,02 m**	**1 Nr. Welds**
		Accepted	**1,02 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
3/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
5/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**2.500,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90063/1/CWLNO015	**1**	**07-02-2024**			**PIPE**		**800,00 mm**	**40,00 mm**	**K**	**2,554 m**	**P**	**C.S.**		**T**	**19-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
7/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
8/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
9/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**12-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
11/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
12/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
13/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
14/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
15/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
16/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90063/1/CWLNO015	**1**	**12-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,190 m**	**P**	**C.S.**		**T**	**12-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cons / NOTE	Accept. Date
17/90063/1/CWLNO015		**1**	**12-02-2024**					**PL**	**200,00 mm**	**15,00 mm**	**1/2V**	**0,190 m**	**P**	**C.S.**			**T**	**12-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723000223																
18/90063/1/CWLNO015		**1**	**12-02-2024**					**PL**	**200,00 mm**	**15,00 mm**	**1/2V**	**0,193 m**	**P**	**C.S.**			**T**	**12-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723000223																
38/90063/1/CWLNO015		**1**	**08-02-2024**	**17**	**AX84**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000488		Acceptable				06-03-2024			
		Ref. dossier SCANDIUZZI - 1723000223																
39/90063/1/CWLNO015		**1**	**08-02-2024**	**17**	**AX84**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000489		Acceptable				06-03-2024			
		Ref. dossier SCANDIUZZI - 1723000223																
41/90063/1/CWLNO015		**1**	**08-02-2024**	**16**	**AX84**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000490		Acceptable				06-03-2024			
		Ref. dossier SCANDIUZZI - 1723000223																
42/90063/1/CWLNO015		**1**	**08-02-2024**	**16**	**AX84**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000491		Acceptable				06-03-2024			
		Ref. dossier SCANDIUZZI - 1723000223																
49/90063/1/CWLNO015		**1**	**08-02-2024**					**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SIDERTAGLIO - 1723001835																

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
49/90063/1/CWLNO015	**1**	**08-02-2024**				**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW**	**08-02-2024**

Totals per DWG	**90063**	**Prefabrication**	**23,69 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**23,69 m**	**23 Nr. Welds**
		Accepted	**23,69 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
3/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
5/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**2.500,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90064/1/CWLNO016	**1**	**13-02-2024**			**PIPE**		**800,00 mm**	**40,00 mm**	**K**	**2,571 m**	**P**	**C.S.**		**T**	**19-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
7/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
8/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
9/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
11/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
12/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
13/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,190 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
14/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,193 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
15/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
16/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90064/1/CWLNO016	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date
17/90064/1/CWLNO016		**1**	**08-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**			**T**	**08-02-2024**
I	UT		FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																		
18/90064/1/CWLNO016		**1**	**08-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**			**T**	**08-02-2024**
I	UT		FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																		
38/90064/1/CWLNO016		**1**	**08-02-2024**	**15**	**AX25**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN	Weld Completion				100 %										
	UT	C 1	DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000425		Acceptable				05-03-2024			
Ref. dossier SCANDIUZZI - 1723000223																		
39/90064/1/CWLNO016		**1**	**08-02-2024**	**15**	**AX25**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN	Weld Completion				100 %										
	UT	C 1	DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000426		Acceptable				05-03-2024			
Ref. dossier SCANDIUZZI - 1723000223																		
41/90064/1/CWLNO016		**1**	**08-02-2024**	**14**	**AX25**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN	Weld Completion				100 %			Acceptable							
	UT	C 1	DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000431		Acceptable				05-03-2024			
Ref. dossier SCANDIUZZI - 1723000223																		
42/90064/1/CWLNO016		**1**	**08-02-2024**	**14**	**AX25**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN	Weld Completion				100 %			Acceptable							
	UT	C 1	DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000432		Acceptable				05-03-2024			
Ref. dossier SCANDIUZZI - 1723000223																		
49/90064/1/CWLNO016		**1**	**08-02-2024**					**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT		FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SIDERTAGLIO - 1723001835																		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
49/90064/1/CWLNO016	**1**	**08-02-2024**				**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW** **08-02-2024**

Totals per DWG	**90064**	**Prefabrication**	**23,71 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**23,71 m**	**23 Nr. Welds**
		Accepted	**23,71 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
3/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
5/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**2.500,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90065/1/CWLNO017	**1**	**07-02-2024**			**PIPE**		**800,00 mm**	**40,00 mm**	**K**	**2,554 m**	**P**	**C.S.**		**T**	**19-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
7/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
8/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
9/90065/1/CWLNO017	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
		Ref. dossier SCANDIUZZI - 1723000223														
10/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						
		Ref. dossier SCANDIUZZI - 1723000223														
11/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						
		Ref. dossier SCANDIUZZI - 1723000223														
12/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						
		Ref. dossier SCANDIUZZI - 1723000223														
13/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,190 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						
		Ref. dossier SCANDIUZZI - 1723000223														
14/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,193 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						
		Ref. dossier SCANDIUZZI - 1723000223														
15/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						
		Ref. dossier SCANDIUZZI - 1723000223														
16/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						
		Ref. dossier SCANDIUZZI - 1723000223														
17/90065/1/CWLNO017		**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN	Weld Completion			100 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Conn / NOTE	Accept. Date
17/90065/1/CWLNO017		**1**	**08-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**			**T**	**08-02-2024**
			Ref. dossier SCANDIUZZI - 1723000223															
18/90065/1/CWLNO017		**1**	**08-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**			**T**	**08-02-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
38/90065/1/CWLNO017		**1**	**08-02-2024**	**17**	**AX393**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000492		Acceptable				08-03-2024			
			Ref. dossier SCANDIUZZI - 1723000223															
39/90065/1/CWLNO017		**1**	**08-02-2024**	**17**	**AX393**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000493		Acceptable				08-03-2024			
			Ref. dossier SCANDIUZZI - 1723000223															
41/90065/1/CWLNO017		**1**	**08-02-2024**	**16**	**AX393**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000494		Acceptable				08-03-2024			
			Ref. dossier SCANDIUZZI - 1723000223															
42/90065/1/CWLNO017		**1**	**08-02-2024**	**16**	**AX393**			**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000495		Acceptable				08-03-2024			
			Ref. dossier SCANDIUZZI - 1723000223															
49/90065/1/CWLNO017		**1**	**08-02-2024**					**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
			Ref. dossier SIDERTAGLIO - 1723001835															

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
49/90065/1/CWLNO017	**1**	**08-02-2024**				**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW** **08-02-2024**

Totals per DWG	**90065**	**Prefabrication**	**23,69 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**23,69 m**	**23 Nr. Welds**
		Accepted	**23,69 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
3/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**850,00 mm**	**20,00 mm**	**K**	**0,783 m**	**P**	**C.S.**		**T**	**08-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
5/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**2.500,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**08-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90066/1/CWLNO018		**1**	**13-02-2024**			**PIPE**		**800,00 mm**	**40,00 mm**	**K**	**2,552 m**	**P**	**C.S.**		**T**	**19-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
7/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,190 m**	**P**	**C.S.**		**T**	**08-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
8/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,193 m**	**P**	**C.S.**		**T**	**08-02-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
9/90066/1/CWLNO018		**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
11/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
12/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
13/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
14/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**K**	**1,540 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %									
Ref. dossier SCANDIUZZI - 1723000223															
15/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
16/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,151 m**	**P**	**C.S.**		**T**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90066/1/CWLNO018	**1**	**08-02-2024**			**PL**		**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**		**T**	**08-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05

ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
17/90066/1/CWLNO018		**1**	**08-02-2024**					**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**			**T**	**08-02-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																		
18/90066/1/CWLNO018		**1**	**08-02-2024**					**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,397 m**	**P**	**C.S.**			**T**	**08-02-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																		
38/90066/1/CWLNO018		**1**	**08-02-2024**	**15**	**AX73**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000427		Acceptable				05-03-2024			
Ref. dossier SCANDIUZZI - 1723000223																		
39/90066/1/CWLNO018		**1**	**08-02-2024**	**15**	**AX73**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000428		Acceptable				05-03-2024			
Ref. dossier SCANDIUZZI - 1723000223																		
41/90066/1/CWLNO018		**1**	**08-02-2024**	**19**	**AX73**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000429		Acceptable				05-03-2024			
42/90066/1/CWLNO018		**1**	**08-02-2024**	**19**	**AX73**	**After Cutting**		**PL**	**397,40 mm**	**15,00 mm**	**1/2V**	**0,920 m**	**P**	**C.S.**			**T**	**05-03-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
	UT	C 1	DTA After Cutting			IDL-QCI-UT 0222 02	MM	100 %	000430		Acceptable				05-03-2024			
Ref. dossier SCANDIUZZI - 1723000223																		
49/90066/1/CWLNO018		**1**	**08-02-2024**					**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT		FIN Weld Completion					100 %			Acceptable							
Ref. dossier SIDERTAGLIO - 1723001835																		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
49/90066/1/CWLNO018	**1**	**08-02-2024**				**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**2,170 m**	**P**	**C.S.**			**BW** **08-02-2024**

Totals per DWG	**90066**	**Prefabrication**	**23,69 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**23,69 m**	**23 Nr. Welds**
		Accepted	**23,69 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
3/90073/1/CWLSB042		**0**	**29-02-2024**	**79**	**AX90**		**PL**	**300,00 mm**	**20,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-03-2024**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0223 02	MM	50 %	000555		Acceptable					12-03-2024		

Totals per DWG	**90073**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,30 m**	**1 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,30 m**	**1 Nr. Welds**
		Accepted	**0,30 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
8/90074/1/CWUPG001		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
9/90074/1/CWUPG001		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
10/90074/1/CWUPG001		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
11/90074/1/CWUPG001		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
12/90074/1/CWUPG001		**0**	**07-06-2024**	**118**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001570		Acceptable					21-06-2024		
13/90074/1/CWUPG001		**0**	**07-06-2024**	**118**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001571		Acceptable					21-06-2024		
14/90074/1/CWUPG001		**0**	**07-06-2024**	**118**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001572		Acceptable					21-06-2024		
15/90074/1/CWUPG001		**0**	**07-06-2024**	**118**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001573		Acceptable					21-06-2024		

Totals per DWG	**90074**	**Prefabrication**	**1,76 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,76 m**	**8 Nr. Welds**
		Accepted	**1,76 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
8/90075/1/CWUPG002		**0**	**08-06-2024**	**117**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001568		Acceptable					21-06-2024		
9/90075/1/CWUPG002		**0**	**08-06-2024**	**117**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001569		Acceptable					21-06-2024		
10/90075/1/CWUPG002		**0**	**07-06-2024**	**118**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001574		Acceptable					21-06-2024		
11/90075/1/CWUPG002		**0**	**07-06-2024**	**118**	**AX63**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001575		Acceptable					21-06-2024		
12/90075/1/CWUPG002		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
13/90075/1/CWUPG002		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
14/90075/1/CWUPG002		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
15/90075/1/CWUPG002		**0**	**28-02-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	

Totals per DWG	**90075**	**Prefabrication**	**1,76 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,76 m**	**8 Nr. Welds**
		Accepted	**1,76 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
8/90076/1/CWUPG003		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
9/90076/1/CWUPG003		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
10/90076/1/CWUPG003		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
11/90076/1/CWUPG003		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
12/90076/1/CWUPG003		**0**	**16-05-2024**	**94**	**AX427**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001378		Acceptable					22-05-2024		
13/90076/1/CWUPG003		**0**	**16-05-2024**	**94**	**AX427**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001379		Acceptable					22-05-2024		
14/90076/1/CWUPG003		**0**	**16-05-2024**	**94**	**AX427**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001380		Acceptable					22-05-2024		
15/90076/1/CWUPG003		**0**	**16-05-2024**	**94**	**AX427**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001381		Acceptable					22-05-2024		

Totals per DWG	**90076**			
		Prefabrication	**1,76 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,76 m**	**8 Nr. Welds**
		Accepted	**1,76 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
8/90077/1/CWUPG004		**0**	**17-05-2024**	**93**	**AX90**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001374		Acceptable				22-05-2024			
9/90077/1/CWUPG004		**0**	**17-05-2024**	**93**	**AX90**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001375		Acceptable				22-05-2024			
10/90077/1/CWUPG004		**0**	**17-05-2024**	**93**	**AX90**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001376		Acceptable				22-05-2024			
11/90077/1/CWUPG004		**0**	**17-05-2024**	**93**	**AX90**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	001377		Acceptable				22-05-2024			
12/90077/1/CWUPG004		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
13/90077/1/CWUPG004		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
14/90077/1/CWUPG004		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	
15/90077/1/CWUPG004		**0**	**04-03-2024**					**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,223 m**	**P**	**C.S.**			**T**	**04-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																	

Totals per DWG	**90077**	**Prefabrication**	**1,76 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,76 m**	**8 Nr. Welds**
		Accepted	**1,76 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
19/90092/1/CWUPG021	I	**3** / UT	**30-04-2024** / FIN	**70** Weld Completion	**AX90**	IDL-QCI-UT 0215 03	RS	**PL** 100 %	**300,00 mm** 001178	**25,00 mm**	**1/2V** Acceptable	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**BW**	**09-05-2024**
20/90092/1/CWUPG021	I	**3** / UT	**30-04-2024** / FIN	**70** Weld Completion	**AX411**	IDL-QCI-UT 0215 03	RS	**PL** 100 %	**300,00 mm** 001179	**25,00 mm**	**1/2V** Acceptable	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**BW**	**09-05-2024**
21/90092/1/CWUPG021	I	**3** / UT	**30-04-2024** / FIN	**70** Weld Completion	**AX90**	IDL-QCI-UT 0215 03	MM	**PL** 100 %	**300,00 mm** 001180	**25,00 mm**	**1/2V** Acceptable	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**BW**	**09-05-2024**
22/90092/1/CWUPG021	I	**3** / UT	**30-04-2024** / FIN	**70** Weld Completion	**AX411**	IDL-QCI-UT 0215 03	MM	**PL** 100 %	**300,00 mm** 001181	**25,00 mm**	**1/2V** Acceptable	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**BW**	**09-05-2024**
25/90092/1/CWUPG021	I	**3** / UT	**26-04-2024** / FIN	**67** Weld Completion	**AX411**	IDL-QCI-UT 0223 02	MM	**PIPE** 100 %	**700,00 mm** 001198	**30,00 mm**	**1/2V** Acceptable	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**PARZ**	**09-05-2024**
26/90092/1/CWUPG021	I	**3** / UT	**26-04-2024** / FIN	**67** Weld Completion	**AX411**	IDL-QCI-UT 0223 02	MM	**PIPE** 100 %	**700,00 mm** 001200	**30,00 mm**	**1/2V** Acceptable	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**PARZ**	**09-05-2024**
27/90092/1/CWUPG021	I	**3** / UT	**26-04-2024** / FIN	**67** Weld Completion	**AX411**	IDL-QCI-UT 0223 02	MM	**PIPE** 100 %	**700,00 mm** 001201	**30,00 mm**	**1/2V** Acceptable	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**PARZ**	**09-05-2024**
28/90092/1/CWUPG021	I	**3** / UT	**26-04-2024** / FIN	**67** Weld Completion	**AX411**	IDL-QCI-UT 0223 02	MM	**PIPE** 100 %	**700,00 mm** 001202	**30,00 mm**	**1/2V** Acceptable	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**PARZ**	**09-05-2024**
29/90092/1/CWUPG021	I	**3** / UT	**26-04-2024** / FIN	**67** Weld Completion	**AX411**	IDL-QCI-UT 0223 02	MM	**PIPE** 100 %	**700,00 mm** 001199	**30,00 mm**	**1/2V** Acceptable	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**PARZ**	**09-05-2024**
30/90092/1/CWUPG021	I	**3** / UT	**26-04-2024** / FIN	**67** Weld Completion	**AX411**	IDL-QCI-UT 0223 02	MM	**PIPE** 100 %	**700,00 mm** 001203	**30,00 mm**	**1/2V** Acceptable	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW** 09-05-2024	**PARZ**	**09-05-2024**
31/90092/1/CWUPG021	I	**3** / UT	**23-04-2024** / FIN	**66** Weld Completion	**AX411**	IDL-QCI-UT 0223 02	MM	**PIPE** 100 %	**700,00 mm** 001160	**30,00 mm**	**1/2V** Acceptable	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW** 02-05-2024	**PARZ**	**02-05-2024**
32/90092/1/CWUPG021		**3**	**23-04-2024**	**66**	**AX411**			**PIPE**	**700,00 mm**	**30,00 mm**	**1/2V**	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-05-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
32/90092/1/CWUPG021		**3**	**23-04-2024**	**66**	**AX411**		**PIPE**	**700,00 mm**	**30,00 mm**	**1/2V**	**0,501 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-05-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	MM	100 %	001161		Acceptable					02-05-2024		

Totals per DWG	**90092**	**Prefabrication**	**5,20 m**	**12 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,20 m**	**12 Nr. Welds**
		Accepted	**5,20 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
5/90096/1/CWUPG027	**0**	**19-02-2024**			**PL**		**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**P**	**C.S.**		**BW**	**19-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792/93															
6/90096/1/CWUPG027	**0**	**19-02-2024**			**PL**		**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**P**	**C.S.**		**BW**	**19-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792/93															
7/90096/1/CWUPG027	**0**	**19-02-2024**			**PL**		**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**P**	**C.S.**		**BW**	**19-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792/93															

Totals per DWG	**90096**	**Prefabrication**	**1,72 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**3 Nr. Welds**
		Accepted	**1,72 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date
5/90101/1/CWUPG032		**2**	**01-03-2024**	**3**	**DM22**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000393		Acceptable				04-03-2024			
6/90101/1/CWUPG032		**2**	**01-03-2024**	**3**	**DM07**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000394		Acceptable				04-03-2024			
7/90101/1/CWUPG032		**2**	**01-03-2024**	**3**	**DM22**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000395		Acceptable				04-03-2024			
8/90101/1/CWUPG032		**2**	**01-03-2024**	**3**	**DM07**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000396		Acceptable				04-03-2024			
11/90101/1/CWUPG032		**2**	**01-03-2024**	**3**	**DM22**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	000411		Acceptable				04-03-2024			
12/90101/1/CWUPG032		**2**	**01-03-2024**	**3**	**DM07**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	000412		Acceptable				04-03-2024			

Totals per DWG	**90101**			
		Prefabrication	**2,78 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,78 m**	**6 Nr. Welds**
		Accepted	**2,78 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
5/90102/1/CWUPG033		**2**	**06-03-2024**	**10**	**DM22**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000577		Acceptable				11-03-2024			
6/90102/1/CWUPG033		**2**	**06-03-2024**	**10**	**DM22**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000578		Acceptable				11-03-2024			
7/90102/1/CWUPG033		**2**	**06-03-2024**	**10**	**DM07**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000579		Acceptable				11-03-2024			
8/90102/1/CWUPG033		**2**	**06-03-2024**	**10**	**DM07**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000580		Acceptable				11-03-2024			
11/90102/1/CWUPG033		**2**	**06-03-2024**	**10**	**DM22**		**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000581		Acceptable				11-03-2024			
12/90102/1/CWUPG033		**2**	**06-03-2024**	**10**	**DM07**		**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000582		Acceptable				11-03-2024			

Totals per DWG	**90102**			
		Prefabrication	**2,78 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,78 m**	**6 Nr. Welds**
		Accepted	**2,78 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
5/90105/1/CWUPG038		**2**	**08-03-2024**	**11**	**DM22**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000591		Acceptable				11-03-2024			
6/90105/1/CWUPG038		**2**	**08-03-2024**	**11**	**DM22**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000592		Acceptable				11-03-2024			
7/90105/1/CWUPG038		**2**	**08-03-2024**	**11**	**DM07**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000593		Acceptable				11-03-2024			
8/90105/1/CWUPG038		**2**	**08-03-2024**	**11**	**DM07**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000594		Acceptable				11-03-2024			
11/90105/1/CWUPG038		**2**	**08-03-2024**	**11**	**DM22**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000583		Acceptable				11-03-2024			
12/90105/1/CWUPG038		**2**	**08-03-2024**	**11**	**DM22**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000584		Acceptable				11-03-2024			

Totals per DWG	**90105**			
		Prefabrication	**3,34 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,34 m**	**6 Nr. Welds**
		Accepted	**3,34 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
5/90106/1/CWUPG039		**2**	**08-03-2024**	**11**	**DM22**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000587		Acceptable				11-03-2024			
6/90106/1/CWUPG039		**2**	**08-03-2024**	**11**	**DM22**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000588		Acceptable				11-03-2024			
7/90106/1/CWUPG039		**2**	**08-03-2024**	**11**	**DM07**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000589		Acceptable				11-03-2024			
8/90106/1/CWUPG039		**2**	**08-03-2024**	**11**	**DM07**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	000590		Acceptable				11-03-2024			
11/90106/1/CWUPG039		**2**	**08-03-2024**	**11**	**DM22**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000585		Acceptable				11-03-2024			
12/90106/1/CWUPG039		**2**	**08-03-2024**	**11**	**DM07**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000586		Acceptable				11-03-2024			

Totals per DWG	**90106**			
		Prefabrication	**3,34 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,34 m**	**6 Nr. Welds**
		Accepted	**3,34 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
5/90107/1/CWUPG040		**2**	**01-03-2024**	**6**	**DM09**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000401		Acceptable				04-03-2024			
6/90107/1/CWUPG040		**2**	**01-03-2024**	**6**	**DM09**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000402		Acceptable				04-03-2024			
7/90107/1/CWUPG040		**2**	**01-03-2024**	**6**	**DM09**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000403		Acceptable				04-03-2024			
8/90107/1/CWUPG040		**2**	**01-03-2024**	**6**	**DM09**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000404		Acceptable				04-03-2024			
11/90107/1/CWUPG040		**2**	**01-03-2024**	**6**	**DM09**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	000415		Acceptable				04-03-2024			
12/90107/1/CWUPG040		**2**	**01-03-2024**	**6**	**DM09**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	000416		Acceptable				04-03-2024			

Totals per DWG	**90107**			
		Prefabrication	**3,34 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,34 m**	**6 Nr. Welds**
		Accepted	**3,34 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
5/90108/1/CWUPG041		**2**	**28-02-2024**	**5**	**DM22**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000405		Acceptable				04-03-2024			
6/90108/1/CWUPG041		**2**	**28-02-2024**	**5**	**DM07**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000406		Acceptable				04-03-2024			
7/90108/1/CWUPG041		**2**	**28-02-2024**	**5**	**DM07**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000407		Acceptable				04-03-2024			
8/90108/1/CWUPG041		**2**	**28-02-2024**	**5**	**DM22**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	000408		Acceptable				04-03-2024			
11/90108/1/CWUPG041		**2**	**28-02-2024**	**5**	**DM22**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	000409		Acceptable				04-03-2024			
12/90108/1/CWUPG041		**2**	**28-02-2024**	**5**	**DM07**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**0,673 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	000410		Acceptable				04-03-2024			

Totals per DWG	**90108**			
		Prefabrication	**3,34 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,34 m**	**6 Nr. Welds**
		Accepted	**3,34 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
3/90113/1/CWLSB044		**0**	**27-02-2024**	**11**	**AX25**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90113/1/CWLSB045		**0**	**23-02-2024**	**9**	**AX90**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000468		Acceptable					07-03-2024		
3/90113/1/CWLSB046		**0**	**24-02-2024**	**10**	**AX429**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000462		Acceptable					06-03-2024		
3/90113/1/CWLSB047		**0**	**23-02-2024**	**9**	**AX90**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000469		Acceptable					07-03-2024		
3/90113/1/CWLSB048		**0**	**22-02-2024**	**8**	**AX429**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000338		Acceptable					28-02-2024		

Totals per DWG	**90113**	**Prefabrication**	**1,50 m**	**5 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,50 m**	**5 Nr. Welds**
		Accepted	**1,50 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90114/1/CWLSB049	**1**	**23-02-2024**	**6**	**AX394**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000301		Acceptable				27-02-2024		
6/90114/1/CWLSB049	**1**	**23-02-2024**	**6**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	000305		Acceptable				27-02-2024		
7/90114/1/CWLSB049	**1**	**23-02-2024**	**6**	**AX394**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
8/90114/1/CWLSB049	**1**	**23-02-2024**	**6**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	000306		Acceptable				27-02-2024		
3/90114/1/CWLSB050	**1**	**04-03-2024**	**20**	**AX427**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000565		Acceptable				12-03-2024		
6/90114/1/CWLSB050	**1**	**04-03-2024**	**20**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**12-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	000566		Acceptable				12-03-2024		
7/90114/1/CWLSB050	**1**	**04-03-2024**	**20**	**AX427**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
8/90114/1/CWLSB050	**1**	**04-03-2024**	**20**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**12-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	000567		Acceptable				12-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90114/1/CWLSB051		**1**	**04-03-2024**	**20**	**AX427**		**PL**		**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
6/90114/1/CWLSB051		**1**	**04-03-2024**	**20**	**AX427**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-03-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	000527		Acceptable					13-03-2024	
7/90114/1/CWLSB051		**1**	**04-03-2024**	**20**	**AX427**		**HEA**		**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
8/90114/1/CWLSB051		**1**	**04-03-2024**	**20**	**AX427**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-03-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	000528		Acceptable					13-03-2024	

Totals per DWG	**90114**	**Prefabrication**	**3,42 m**	**12 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,42 m**	**12 Nr. Welds**
		Accepted	**3,42 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90115/1/CWLSB053	**0**	**29-02-2024**	**13**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000477		Acceptable				07-03-2024		
3/90115/1/CWLSB054	**0**	**22-02-2024**	**8**	**AX426**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000339		Acceptable				28-02-2024		
3/90115/1/CWLSB056	**0**	**29-02-2024**	**13**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000478		Acceptable				07-03-2024		

Totals per DWG	**90115**	**Prefabrication**	**0,62 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,62 m**	**3 Nr. Welds**
		Accepted	**0,62 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
3/90116/1/CWLSB057		**0**	**27-02-2024**	**11**	**AX25**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90116/1/CWLSB058		**0**	**06-03-2024**	**34**	**AX73**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90116/1/CWLSB059		**0**	**27-02-2024**	**11**	**AX25**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000433		Acceptable					06-03-2024		
3/90116/1/CWLSB060		**0**	**24-02-2024**	**10**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000463		Acceptable					06-03-2024		
3/90116/1/CWLSB061		**0**	**23-02-2024**	**6**	**AX394**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90116**	**Prefabrication**	**0,80 m**	**5 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,80 m**	**5 Nr. Welds**
		Accepted	**0,80 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
3/90117/1/CWLSB062		**2**	**01-03-2024**	**21**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000529		Acceptable					13-03-2024		
3/90117/1/CWLSB063		**2**	**01-03-2024**	**21**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90117/1/CWLSB064		**2**	**23-02-2024**	**9**	**AX410**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000470		Acceptable					07-03-2024		
3/90117/1/CWLSB072		**2**	**23-02-2024**	**6**	**AX410**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000302		Acceptable					27-02-2024		
6/90117/1/CWLSB072		**2**	**23-02-2024**	**6**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	000304		Acceptable					27-02-2024		
7/90117/1/CWLSB072		**2**	**23-02-2024**	**6**	**AX410**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90117/1/CWLSB072		**2**	**23-02-2024**	**6**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	000303		Acceptable					28-02-2024		

Totals per DWG	**90117**			
		Prefabrication	**1,62 m**	**7 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,62 m**	**7 Nr. Welds**
		Accepted	**1,62 m**	**7 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
3/90118/1/CWLSB065		**1**	**01-03-2024**	**21**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90118/1/CWLSB067		**1**	**01-03-2024**	**21**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000530		Acceptable					13-03-2024		
3/90118/1/CWLSB069		**1**	**24-02-2024**	**10**	**AX410**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000464		Acceptable					06-03-2024		
1/90118/1/CWLSB073		**1**	**05-03-2024**	**103**	**AX410**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90118/1/CWLSB073		**1**	**05-03-2024**	**103**	**AX410**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90118/1/CWLSB074		**1**	**01-03-2024**	**83**	**AX429**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90118/1/CWLSB074		**1**	**01-03-2024**	**83**	**AX429**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90118**			
		Prefabrication	**0,48 m**	**3 Nr. Welds**
		Erection	**0,28 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,76 m**	**7 Nr. Welds**
		Accepted	**0,76 m**	**7 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
3/90119/1/CWLSB066		**1**	**01-03-2024**	**21**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90119/1/CWLSB068		**1**	**01-03-2024**	**21**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90119/1/CWLSB070		**1**	**23-02-2024**	**9**	**AX427**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000471		Acceptable					07-03-2024		
3/90119/1/CWLSB071		**1**	**23-02-2024**	**9**	**AX427**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90119**	**Prefabrication**	**0,64 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,64 m**	**4 Nr. Welds**
		Accepted	**0,64 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90122/1/CWLSB107		**0**	**24-02-2024**	**10**	**AX429**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000473		Acceptable				07-03-2024			
2/90122/1/CWLSB107		**0**	**24-02-2024**	**10**	**AX429**			**PL**	**72,60 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90122/1/CWLSB108		**0**	**06-03-2024**	**24**	**AX238**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90122/1/CWLSB108		**0**	**06-03-2024**	**24**	**AX238**			**PL**	**72,60 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90122/1/CWLSB114		**0**	**24-02-2024**	**62**	**AX410**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90122/1/CWLSB114		**0**	**24-02-2024**	**62**	**AX410**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90122/1/CWLSB115		**0**	**04-03-2024**	**91**	**AX426**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000559		Acceptable				12-03-2024			
2/90122/1/CWLSB115		**0**	**04-03-2024**	**91**	**AX426**			**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,076 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000560		Acceptable				12-03-2024			

Totals per DWG	**90122**	**Prefabrication**	**0,32 m**	**4 Nr. Welds**
		Erection	**0,32 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,64 m**	**8 Nr. Welds**
		Accepted	**0,64 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**914,00 mm**	**20,00 mm**	**K**	**2,450 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**914,00 mm**	**20,00 mm**	**K**	**2,450 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
3/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
4/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
5/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
7/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
8/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
11/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
12/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
13/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
15/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
16/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
17/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
17/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
18/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
19/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
20/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
21/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
22/90125/1/CWUNO001	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
28/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
29/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
32/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**		**T**	**04-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
32/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
33/90125/1/CWUNO001	**0**	**04-03-2024**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															

Totals per DWG	**90125**	**Prefabrication**	**20,22 m**	**26 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**20,22 m**	**26 Nr. Welds**
		Accepted	**20,22 m**	**26 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**914,00 mm**	**20,00 mm**	**K**	**2,450 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**914,00 mm**	**20,00 mm**	**K**	**2,450 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
3/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
4/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
5/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
7/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
8/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
11/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
12/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
13/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
15/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
16/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,183 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
17/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
17/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
18/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,102 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
19/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
20/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
21/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
22/90126/1/CWUNO002	**0**	**04-03-2024**			**PL**		**365,00 mm**	**15,00 mm**	**K**	**0,358 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
29/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
33/90126/1/CWUNO002	**0**	**04-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
33/90126/1/CWUNO002	**0**	**04-03-2024**				**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,906 m**	**P**	**C.S.**			**T**	**04-03-2024**

Totals per DWG	**90126**	**Prefabrication**	**18,40 m**	**24 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**18,40 m**	**24 Nr. Welds**
		Accepted	**18,40 m**	**24 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**		**954,00 mm**	**15,00 mm**	**K**	**1,850 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**		**954,00 mm**	**15,00 mm**	**K**	**1,850 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
4/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**		**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90127/1/CWUNO003		**0**	**01-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
8/90127/1/CWUNO003		**0**	**01-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**		**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
12/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**		**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90127/1/CWUNO003		**0**	**01-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
16/90127/1/CWUNO003		**0**	**01-03-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**01-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
16/90127/1/CWUNO003		**0**	**01-03-2024**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
18/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**	**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
19/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
20/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
21/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
22/90127/1/CWUNO003		**0**	**01-03-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**01-03-2024**
I		UT	FIN	Weld Completion		100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															

Totals per DWG	**90127**	**Prefabrication**	**8,38 m**	**14 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,38 m**	**14 Nr. Welds**
		Accepted	**8,38 m**	**14 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90128/1/CWUNO004	**0**	**12-02-2024**			**PL**		**954,00 mm**	**15,00 mm**	**K**	**1,850 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90128/1/CWUNO004	**0**	**12-02-2024**			**PL**		**954,00 mm**	**15,00 mm**	**K**	**1,850 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90128/1/CWUNO004	**0**	**12-02-2024**			**PL**		**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90128/1/CWUNO004	**0**	**12-02-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
8/90128/1/CWUNO004	**0**	**12-02-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90128/1/CWUNO004	**0**	**12-02-2024**			**PL**		**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
12/90128/1/CWUNO004	**0**	**12-02-2024**			**PL**		**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
14/90128/1/CWUNO004	**0**	**12-02-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
16/90128/1/CWUNO004	**0**	**12-02-2024**			**PIPE**		**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**12-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
16/90128/1/CWUNO004		**0**	**12-02-2024**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
18/90128/1/CWUNO004		**0**	**12-02-2024**			**PL**	**709,80 mm**	**12,00 mm**	**1/2V**	**0,713 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
19/90128/1/CWUNO004		**0**	**12-02-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
20/90128/1/CWUNO004		**0**	**12-02-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
21/90128/1/CWUNO004		**0**	**12-02-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
22/90128/1/CWUNO004		**0**	**12-02-2024**			**PL**	**272,50 mm**	**15,00 mm**	**K**	**0,266 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															

Totals per DWG	**90128**	**Prefabrication**	**8,38 m**	**14 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,38 m**	**14 Nr. Welds**
		Accepted	**8,38 m**	**14 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**955,50 mm**	**20,00 mm**	**K**	**1,216 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**955,50 mm**	**20,00 mm**	**K**	**1,250 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
4/90129/1/CWUNO005	**0**	**03-05-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90129/1/CWUNO005	**0**	**03-05-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
8/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
12/90129/1/CWUNO005	**0**	**03-05-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90129/1/CWUNO005	**0**	**03-05-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
15/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**03-05-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
15/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
16/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
17/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
18/90129/1/CWUNO005	**0**	**03-05-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															

Totals per DWG	**90129**	**Prefabrication**	**6,19 m**	**12 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,19 m**	**12 Nr. Welds**
		Accepted	**6,19 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**955,50 mm**	**20,00 mm**	**K**	**1,216 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**955,50 mm**	**20,00 mm**	**K**	**1,250 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90130/1/CWUNO006	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
8/90130/1/CWUNO006	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90130/1/CWUNO006	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
12/90130/1/CWUNO006	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
14/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
15/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
15/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
16/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
18/90130/1/CWUNO006	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															

Totals per DWG	**90130**	**Prefabrication**	**6,19 m**	**12 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,19 m**	**12 Nr. Welds**
		Accepted	**6,19 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**955,50 mm**	**20,00 mm**	**K**	**1,216 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
2/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**955,50 mm**	**20,00 mm**	**K**	**1,250 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
4/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
6/90131/1/CWUNO007	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
8/90131/1/CWUNO007	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
10/90131/1/CWUNO007	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
12/90131/1/CWUNO007	**0**	**12-02-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
14/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
15/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
15/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
16/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
17/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															
18/90131/1/CWUNO007	**0**	**12-02-2024**			**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**		**T**	**12-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223															

Totals per DWG	**90131**	**Prefabrication**	**6,19 m**	**12 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,19 m**	**12 Nr. Welds**
		Accepted	**6,19 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90132/1/CWUNO008	**0**	**03-05-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,250 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90132/1/CWUNO008	**0**	**03-05-2024**			**PL**		**944,00 mm**	**20,00 mm**	**K**	**1,250 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
4/90132/1/CWUNO008	**0**	**03-05-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90132/1/CWUNO008	**0**	**03-05-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
7/90132/1/CWUNO008	**0**	**03-05-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
8/90132/1/CWUNO008	**0**	**03-05-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90132/1/CWUNO008	**0**	**03-05-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90132/1/CWUNO008	**0**	**03-05-2024**			**PL**		**950,00 mm**	**15,00 mm**	**1/2V**	**0,703 m**	**P**	**C.S.**		**T**	**03-05-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
12/90132/1/CWUNO008	**0**	**03-05-2024**			**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**		**T**	**03-05-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet / Work Instructions	Welders	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cont. / NOTE	Accept. Date
12/90132/1/CWUNO008			**0**	**03-05-2024**				**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**			**T**	**03-05-2024**
	I	UT		FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																	
14/90132/1/CWUNO008			**0**	**03-05-2024**				**PIPE**		**406,40 mm**	**12,70 mm**	**1/2V**	**0,287 m**	**P**	**C.S.**			**T**	**03-05-2024**
	I	UT		FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																	
15/90132/1/CWUNO008			**0**	**03-05-2024**				**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**			**T**	**03-05-2024**
	I	UT		FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																	
16/90132/1/CWUNO008			**0**	**03-05-2024**				**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**			**T**	**03-05-2024**
	I	UT		FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																	
17/90132/1/CWUNO008			**0**	**03-05-2024**				**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**			**T**	**03-05-2024**
	I	UT		FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																	
18/90132/1/CWUNO008			**0**	**03-05-2024**				**PL**		**295,00 mm**	**15,00 mm**	**K**	**0,288 m**	**P**	**C.S.**			**T**	**03-05-2024**
	I	UT		FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																	

Totals per DWG	**90132**	**Prefabrication**	**7,62 m**	**14 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,62 m**	**14 Nr. Welds**
		Accepted	**7,62 m**	**14 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cont / NOTE	Accept. Date
1/90133/1/CWUNO009		**0**	**08-03-2024**					**PL**	**914,00 mm**	**25,00 mm**	**K**	**2,460 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
2/90133/1/CWUNO009		**0**	**08-03-2024**					**PL**	**914,00 mm**	**25,00 mm**	**K**	**2,460 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
3/90133/1/CWUNO009		**0**	**08-03-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
4/90133/1/CWUNO009		**0**	**08-03-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
5/90133/1/CWUNO009		**0**	**02-03-2024**	**3**	**AX409**			**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000658		Acceptable					21-03-2024		
6/90133/1/CWUNO009		**0**	**02-03-2024**	**3**	**AX409**			**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000659		Acceptable					21-03-2024		
7/90133/1/CWUNO009		**0**	**02-03-2024**	**3**	**AX409**			**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000660		Acceptable					21-03-2024		
8/90133/1/CWUNO009		**0**	**02-03-2024**	**3-41**	**AX409**			**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-03-2024**
					AX394	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000661		Repair				0,100 m	21-03-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0223 02	MM	100 %	000694		Acceptable					26-03-2024		
9/90133/1/CWUNO009		**0**	**08-03-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
10/90133/1/CWUNO009		**0**	**08-03-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
10/90133/1/CWUNO009		**0**	**08-03-2024**				**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																	
11/90133/1/CWUNO009		**0**	**08-03-2024**				**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																	
12/90133/1/CWUNO009		**0**	**08-03-2024**				**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																	
13/90133/1/CWUNO009		**0**	**04-03-2024**	**4**	**AX409**		**PIPE**		**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000654		Acceptable					21-03-2024		
14/90133/1/CWUNO009		**0**	**04-03-2024**	**4**	**AX409**		**PIPE**		**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000655		Acceptable					21-03-2024		
15/90133/1/CWUNO009		**0**	**04-03-2024**	**4**	**AX409**		**PIPE**		**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000656		Acceptable					21-03-2024		
16/90133/1/CWUNO009		**0**	**04-03-2024**	**4**	**AX409**		**PIPE**		**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000657		Acceptable					21-03-2024		
17/90133/1/CWUNO009		**0**	**08-03-2024**				**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																	
18/90133/1/CWUNO009		**0**	**08-03-2024**				**PL**		**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723000223																	
19/90133/1/CWUNO009		**0**	**08-03-2024**				**PL**		**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet / Work Instructions	Welders	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
19/90133/1/CWUNO009			**0**	**08-03-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**08-03-2024**
				Ref. dossier SCANDIUZZI - 1723000223														
20/90133/1/CWUNO009			**0**	**08-03-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT		FIN	Weld Completion			100 %			Acceptable							
				Ref. dossier SCANDIUZZI - 1723000223														
21/90133/1/CWUNO009			**0**	**08-03-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT		FIN	Weld Completion			100 %			Acceptable							
				Ref. dossier SCANDIUZZI - 1723000223														
22/90133/1/CWUNO009			**0**	**08-03-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**08-03-2024**
	I	UT		FIN	Weld Completion			100 %			Acceptable							
				Ref. dossier SCANDIUZZI - 1723000223														

Totals per DWG	**90133**	**Prefabrication**	**17,24 m**	**22 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**17,24 m**	**22 Nr. Welds**
		Accepted	**17,24 m**	**22 Nr. Welds**
		Repaired	**0,10 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cont / NOTE	Accept. Date
1/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**914,00 mm**	**25,00 mm**	**K**	**2,460 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																
2/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**914,00 mm**	**25,00 mm**	**K**	**2,460 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																
3/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																
4/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93																
5/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0223 02	MM	100 %	000765		Acceptable				03-04-2024			
		Ref. dossier SCANDIUZZI - 1723001792 / 93																
6/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0223 02	MM	100 %	000766		Acceptable				03-04-2024			
		Ref. dossier SCANDIUZZI - 1723001792 / 93																
7/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0223 02	MM	100 %	000767		Acceptable				03-04-2024			
		Ref. dossier SCANDIUZZI - 1723001792 / 93																
8/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0223 02	MM	100 %	000768		Acceptable				03-04-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date
8/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
I		UT	FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
I		UT	FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
11/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
I		UT	FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
12/90134/1/CWUNO010		**0**	**28-02-2024**					**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
I		UT	FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
13/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
I		UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0223 02	MM	100 %	000769		Acceptable				03-04-2024			
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
I		UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0223 02	MM	100 %	000770		Acceptable				03-04-2024			
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
15/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
I		UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0223 02	MM	100 %	000771		Acceptable				03-04-2024			
			Ref. dossier SCANDIUZZI - 1723001792 / 93															
16/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412**	**After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cons / NOTE	Accept. Date
16/90134/1/CWUNO010		**0**	**28-02-2024**	**1**	**AX412** **After Cutting**		**PIPE**	**323,90 mm**	**21,44 mm**	**1/2V**	**0,220 m**	**P**	**C.S.**			**T**	**03-04-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		UT	C 1 DTA	After Cutting	IDL-QCI-UT 0223 02	MM	100 %	000772		Acceptable				03-04-2024			
		Ref. dossier SCANDIUZZI - 1723001792 / 93															
17/90134/1/CWUNO010		**0**	**28-02-2024**				**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93															
18/90134/1/CWUNO010		**0**	**28-02-2024**				**PL**	**920,00 mm**	**20,00 mm**	**1/2V**	**1,127 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93															
19/90134/1/CWUNO010		**0**	**28-02-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93															
20/90134/1/CWUNO010		**0**	**28-02-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93															
21/90134/1/CWUNO010		**0**	**28-02-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93															
22/90134/1/CWUNO010		**0**	**28-02-2024**				**PL**	**387,50 mm**	**15,00 mm**	**K**	**0,381 m**	**P**	**C.S.**			**T**	**28-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723001792 / 93															

Totals per DWG	**90134**	**Prefabrication**	**17,24 m**	**22 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**17,24 m**	**22 Nr. Welds**
		Accepted	**17,24 m**	**22 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
5/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
13/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90135/1/CWUNO011	**1**	**04-03-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
36/90135/1/CWUNO011	**1**	**04-03-2024**			**PIPE**		**800,00 mm**	**30,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**BW**	**04-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
36/90135/1/CWUNO011		**1**	**04-03-2024**				**PIPE**	**800,00 mm**	**30,00 mm**	**K**	**2,512 m**	**P**	**C.S.**			**BW**	**04-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723001792 / 93

Totals per DWG	**90135**	**Prefabrication**	**7,71 m**	**9 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,71 m**	**9 Nr. Welds**
		Accepted	**7,71 m**	**9 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
35/90136/1/CWUNO011	**1**	**04-03-2024**			**PL**	**1.800,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
38/90136/1/CWUNO011	**1**	**04-03-2024**			**PL**	**734,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
39/90136/1/CWUNO011	**1**	**04-03-2024**			**PL**	**734,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
50/90136/1/CWUNO011	**1**	**08-02-2024**			**PIPE**	**800,00 mm**	**30,00 mm**	**X**	**2,950 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SIDERTAGLIO - 1723001835															

Totals per DWG	**90136**	**Prefabrication**	**10,10 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**10,10 m**	**4 Nr. Welds**
		Accepted	**10,10 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
5/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
13/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90137/1/CWUNO012	**1**	**04-03-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
14/90137/1/CWUNO012	**1**	**04-03-2024**				**PL**	**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**04-03-2024**

Totals per DWG	**90137**	**Prefabrication**	**5,20 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,20 m**	**8 Nr. Welds**
		Accepted	**5,20 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
35/90138/1/CWUNO012	**1**	**04-03-2024**			**PL**	**1.800,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
36/90138/1/CWUNO012	**1**	**04-03-2024**			**PL**	**1.800,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
38/90138/1/CWUNO012	**1**	**04-03-2024**			**PL**	**734,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
39/90138/1/CWUNO012	**1**	**04-03-2024**			**PL**	**734,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**			**T**	**04-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
51/90138/1/CWUNO012	**1**	**08-02-2024**			**PIPE**	**800,00 mm**	**30,00 mm**	**X**	**2,950 m**	**P**	**C.S.**			**BW**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SIDERTAGLIO - 1723001835															

Totals per DWG	**90138**	**Prefabrication**	**12,61 m**	**5 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**12,61 m**	**5 Nr. Welds**
		Accepted	**12,61 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
5/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
13/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90139/1/CWUNO013	**1**	**28-02-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
14/90139/1/CWUNO013	**1**	**28-02-2024**				**PL**	**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**			**T**	**28-02-2024**

Totals per DWG	**90139**	**Prefabrication**	**5,20 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,20 m**	**8 Nr. Welds**
		Accepted	**5,20 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
35/90140/1/CWUNO013	**1**	**28-02-2024**			**PL**		**1.800,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
36/90140/1/CWUNO013	**1**	**28-02-2024**			**PL**		**1.800,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
38/90140/1/CWUNO013	**1**	**28-02-2024**			**PL**		**734,00 mm**	**25,00 mm**	**1/2V**	**2,298 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
39/90140/1/CWUNO013	**1**	**28-02-2024**			**PL**		**734,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
51/90140/1/CWUNO013	**1**	**08-02-2024**			**PIPE**		**800,00 mm**	**30,00 mm**	**X**	**2,950 m**	**P**	**C.S.**		**BW**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SIDERTAGLIO - 1723001835															

Totals per DWG	**90140**	**Prefabrication**	**12,59 m**	**5 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**12,59 m**	**5 Nr. Welds**
		Accepted	**12,59 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
2/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**800,00 mm**	**20,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
5/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
6/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**900,00 mm**	**20,00 mm**	**K**	**0,833 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
9/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
10/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**800,00 mm**	**15,00 mm**	**K**	**0,793 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
13/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
14/90141/1/CWUNO014	**1**	**28-02-2024**			**PL**		**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
14/90141/1/CWUNO014	**1**	**28-02-2024**				**PL**	**200,00 mm**	**15,00 mm**	**1/2V**	**0,192 m**	**P**	**C.S.**		**T**	**28-02-2024**

Totals per DWG	**90141**	**Prefabrication**	**5,20 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,20 m**	**8 Nr. Welds**
		Accepted	**5,20 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
35/90142/1/CWUNO014	**1**	**28-02-2024**			**PL**		**1.800,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
36/90142/1/CWUNO014	**1**	**28-02-2024**			**PL**		**1.800,00 mm**	**40,00 mm**	**K**	**2,512 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
39/90142/1/CWUNO014	**1**	**28-02-2024**			**PL**		**734,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
44/90142/1/CWUNO014	**1**	**28-02-2024**			**PL**		**734,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**		**T**	**28-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723001792 / 93															
50/90142/1/CWUNO014	**1**	**08-02-2024**			**PIPE**		**800,00 mm**	**30,00 mm**	**X**	**2,950 m**	**P**	**C.S.**		**BW**	**08-02-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SIDERTAGLIO - 1723001835															

Totals per DWG	**90142**	**Prefabrication**	**12,61 m**	**5 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**12,61 m**	**5 Nr. Welds**
		Accepted	**12,61 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn / Accept. Date
5/90147/1/CWUPG046		**1**	**07-03-2024**	**9**	**DM22**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000571		Acceptable					11-03-2024	
6/90147/1/CWUPG046		**1**	**07-03-2024**	**9**	**DM22**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000572		Acceptable					11-03-2024	
7/90147/1/CWUPG046		**1**	**07-03-2024**	**9**	**DM07**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000573		Acceptable					11-03-2024	
8/90147/1/CWUPG046		**1**	**07-03-2024**	**9**	**DM07**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	000574		Acceptable					11-03-2024	
11/90147/1/CWUPG046		**1**	**07-03-2024**	**9**	**DM22**		**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000575		Acceptable					11-03-2024	
12/90147/1/CWUPG046		**1**	**07-03-2024**	**9**	**DM22**		**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **11-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	100 %	000576		Acceptable					11-03-2024	

Totals per DWG	**90147**			
		Prefabrication	**2,78 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,78 m**	**6 Nr. Welds**
		Accepted	**2,78 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn / Accept. Date
5/90148/1/CWUPG047		**1**	**29-02-2024**	**4**	**DM22**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000397		Acceptable					04-03-2024	
6/90148/1/CWUPG047		**1**	**29-02-2024**	**4**	**DM22**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000398		Acceptable					04-03-2024	
7/90148/1/CWUPG047		**1**	**29-02-2024**	**4**	**DM07**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000399		Acceptable					04-03-2024	
8/90148/1/CWUPG047		**1**	**29-02-2024**	**4**	**DM07**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	000400		Acceptable					04-03-2024	
11/90148/1/CWUPG047		**1**	**29-02-2024**	**4**	**DM22**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	000413		Acceptable					04-03-2024	
12/90148/1/CWUPG047		**1**	**29-02-2024**	**4**	**DM07**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**0,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	000414		Acceptable					04-03-2024	

Totals per DWG	**90148**			
		Prefabrication	**2,78 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,78 m**	**6 Nr. Welds**
		Accepted	**2,78 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
3/90161/1/CWUSB002		**0**	**11-04-2024**	**51**	**AX393**		**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	000950		Acceptable					18-04-2024		

Totals per DWG	**90161**	**Prefabrication**	**0,30 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,30 m**	**1 Nr. Welds**
		Accepted	**0,30 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90162/1/CWUSB042	**0**	**14-02-2024**	**19**	**GX14**		**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90162**	**Prefabrication**	**0,30 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,30 m**	**1 Nr. Welds**
		Accepted	**0,30 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
3/90164/1/CWUSB003		**2**	**04-05-2024**	**76**	**AX416**		**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	001237		Acceptable					13-05-2024		
3/90164/1/CWUSB004		**2**	**03-05-2024**	**75**	**AX414**		**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	001230		Acceptable					13-05-2024		
3/90164/1/CWUSB005		**2**	**14-05-2024**	**87**	**AX90**		**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	RS	50 %	001350		Acceptable					17-05-2024		
3/90164/1/CWUSB006		**2**	**10-05-2024**	**89**	**AX416**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	RS	50 %	001347		Acceptable					17-05-2024		

Totals per DWG	**90164**	**Prefabrication**	**1,06 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,06 m**	**4 Nr. Welds**
		Accepted	**1,06 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
3/90165/1/CWUSB007		**0**	**15-04-2024**	**60**	**AX238**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90165/1/CWUSB008		**0**	**17-04-2024**	**58**	**AX410**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90165/1/CWUSB009		**0**	**14-05-2024**	**87**	**AX414**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001351		Acceptable					17-05-2024		
3/90165/1/CWUSB010		**0**	**15-05-2024**	**86**	**AX416**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001353		Acceptable					17-05-2024		

Totals per DWG	**90165**	**Prefabrication**	**0,64 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,64 m**	**4 Nr. Welds**
		Accepted	**0,64 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90166/1/CWUSB011		**0**	**14-05-2024**	**87**	**AX414**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	RS	50 %	001352		Acceptable				17-05-2024		
3/90166/1/CWUSB012		**0**	**19-04-2024**	**56**	**AX410**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
3/90166/1/CWUSB013		**0**	**13-05-2024**	**88**	**AX416**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	RS	50 %	001349		Acceptable				17-05-2024		

Totals per DWG	**90166**	**Prefabrication**	**0,48 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,48 m**	**3 Nr. Welds**
		Accepted	**0,48 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90167/1/CWUSB017	III	**0** / UT	**24-05-2024** / FIN	**331** Weld Completion	**AX416**			**PL** 50 %	**72,50 mm**	**12,00 mm**	**1/2V** Acceptable	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
2/90167/1/CWUSB017	III	**0** / UT	**24-05-2024** / FIN	**331** Weld Completion	**AX416**			**PL** 50 %	**72,50 mm**	**12,00 mm**	**1/2V** Acceptable	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
1/90167/1/CWUSB018	III	**0** / UT	**10-05-2024** / FIN	**280** Weld Completion	**AX414**	IDL-QCI-UT 0214 02	MM	**PL** 50 %	**72,50 mm** 001279	**12,00 mm**	**1/2V** Acceptable	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW** 15-05-2024	**BW**	**19-05-2024**
2/90167/1/CWUSB018	III	**0** / UT	**10-05-2024** / FIN	**280** Weld Completion	**AX414**	IDL-QCI-UT 0214 02	MM	**PL** 50 %	**72,50 mm** 001280	**12,00 mm**	**1/2V** Acceptable	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW** 15-05-2024	**BW**	**21-05-2024**
3/90167/1/CWUSB023	III	**0** / UT	**04-05-2024** / FIN	**76** Weld Completion	**AX90**	IDL-QCI-UT 0214 02	MM	**PL** 50 %	**160,00 mm** 001238	**15,00 mm**	**1/2V** Acceptable	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW** 13-05-2024	**T**	**13-05-2024**

Totals per DWG	**90167**			
		Prefabrication	**0,16 m**	**1 Nr. Welds**
		Erection	**0,28 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,44 m**	**5 Nr. Welds**
		Accepted	**0,44 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
3/90168/1/CWUSB024		**0**	**20-04-2024**	**64**	**AX25**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001062		Acceptable					23-04-2024		
3/90168/1/CWUSB025		**0**	**10-05-2024**	**89**	**AX90**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001348		Acceptable					17-05-2024		
3/90168/1/CWUSB026		**0**	**29-03-2024**	**63**	**AX238**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90168/1/CWUSB030		**0**	**16-04-2024**	**53**	**AX426**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001053		Acceptable					22-04-2024		

Totals per DWG	**90168**	**Prefabrication**	**1,06 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,06 m**	**4 Nr. Welds**
		Accepted	**1,06 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90169/1/CWUSB038	**0**	**08-05-2024**	**84**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90169/1/CWUSB039	**0**	**18-04-2024**	**57**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001067		Acceptable				23-04-2024			

Totals per DWG	**90169**	**Prefabrication**	**0,32 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,32 m**	**2 Nr. Welds**
		Accepted	**0,32 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90170/1/CWUSB059	**0**	**11-04-2024**	**62**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001061		Acceptable				23-04-2024		
3/90170/1/CWUSB060	**0**	**12-04-2024**	**61**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Totals per DWG	**90170**	**Prefabrication**	**0,32 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,32 m**	**2 Nr. Welds**
		Accepted	**0,32 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90171/1/CWUSB061		**0**	**08-05-2024**	**84**	**AX414**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,002 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	001236		Acceptable				13-05-2024		
3/90171/1/CWUSB062		**0**	**11-04-2024**	**62**	**AX84**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
3/90171/1/CWUSB063		**0**	**04-05-2024**	**82**	**AX414**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	RS	50 %	001370		Acceptable				17-05-2024		

Totals per DWG	**90171**	**Prefabrication**	**0,32 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,32 m**	**3 Nr. Welds**
		Accepted	**0,32 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90172/1/CWUSB064	**0**	**28-05-2024**	**329**	**AX411**		**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90172/1/CWUSB064	**0**	**28-05-2024**	**329**	**AX411**		**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90172/1/CWUSB065	**0**	**28-05-2024**	**329**	**AX411**		**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90172/1/CWUSB065	**0**	**28-05-2024**	**329**	**AX411**		**PL**	**72,50 mm**	**12,00 mm**	**1/2V**	**0,072 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90172**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,28 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,28 m**	**4 Nr. Welds**
		Accepted	**0,28 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90180/1/CWLPG014		**0**	**26-01-2024**	**3**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000029		Acceptable					31-01-2024		
2/90180/1/CWLPG014		**0**	**26-01-2024**	**3**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000030		Acceptable					31-01-2024		
3/90180/1/CWLPG014		**0**	**26-01-2024**	**3**	**AX63**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000031		Acceptable					31-01-2024		
4/90180/1/CWLPG014		**0**	**26-01-2024**	**3**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000032		Acceptable					31-01-2024		
5/90180/1/CWLPG014		**0**	**26-01-2024**	**3**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000033		Acceptable					31-01-2024		
6/90180/1/CWLPG014		**0**	**26-01-2024**	**3**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000034		Acceptable					31-01-2024		
1/90180/1/CWLPG015		**0**	**13-02-2024**	**21**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000130		Acceptable					16-02-2024		
2/90180/1/CWLPG015		**0**	**13-02-2024**	**21**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000131		Acceptable					16-02-2024		
3/90180/1/CWLPG015		**0**	**13-02-2024**	**21**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000132		Acceptable					16-02-2024		
4/90180/1/CWLPG015		**0**	**15-02-2024**	**23**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000173		Acceptable					19-02-2024		
5/90180/1/CWLPG015		**0**	**15-02-2024**	**23-50**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
					AX393	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000174		Repair				0,080 m	19-02-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	000480		Acceptable					07-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
5/90180/1/CWLPG015		**0**	**15-02-2024**	**23-50**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
					AX393	**Repair done**												
1/90180/1/CWLPG016		**0**	**12-02-2024**	**18**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000110		Acceptable					14-02-2024		
2/90180/1/CWLPG016		**0**	**12-02-2024**	**18**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000111		Acceptable					14-02-2024		
3/90180/1/CWLPG016		**0**	**12-02-2024**	**18**	**AX63**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000112		Acceptable					14-02-2024		
4/90180/1/CWLPG016		**0**	**13-02-2024**	**21**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000133		Acceptable					16-02-2024		
5/90180/1/CWLPG016		**0**	**13-02-2024**	**21**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000134		Acceptable					16-02-2024		
1/90180/1/CWLPG017		**0**	**13-02-2024**	**21**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000135		Acceptable					16-02-2024		
2/90180/1/CWLPG017		**0**	**13-02-2024**	**21**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000136		Acceptable					16-02-2024		
6/90180/1/CWLPG017		**0**	**12-02-2024**	**18**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000113		Acceptable					14-02-2024		
7/90180/1/CWLPG017		**0**	**12-02-2024**	**18**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000114		Acceptable					14-02-2024		
8/90180/1/CWLPG017		**0**	**12-02-2024**	**18**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000120		Acceptable					14-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90180/1/CWLPG018		**0**	**15-02-2024**	**23**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000175		Acceptable					19-02-2024		
2/90180/1/CWLPG018		**0**	**15-02-2024**	**23**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000194		Acceptable					19-02-2024		
6/90180/1/CWLPG018		**0**	**14-02-2024**	**22**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000127		Acceptable					16-02-2024		
7/90180/1/CWLPG018		**0**	**14-02-2024**	**22**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000128		Acceptable					16-02-2024		
8/90180/1/CWLPG018		**0**	**14-02-2024**	**22**	**AX84**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000129		Acceptable					16-02-2024		
1/90180/1/CWLPG019		**0**	**15-02-2024**	**23**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000166		Acceptable					19-02-2024		
2/90180/1/CWLPG019		**0**	**15-02-2024**	**23**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000167		Acceptable					19-02-2024		
6/90180/1/CWLPG019		**0**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
7/90180/1/CWLPG019		**0**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
8/90180/1/CWLPG019		**0**	**08-02-2024**					**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,099 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
9/90180/1/CWLPG019		**0**	**08-02-2024**					**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**08-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
9/90180/1/CWLPG019		**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																		
10/90180/1/CWLPG019		**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,936 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																		
1/90180/1/CWLPG020		**0**	**08-02-2024**					**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																		
2/90180/1/CWLPG020		**0**	**08-02-2024**					**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																		
3/90180/1/CWLPG020		**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,098 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																		
4/90180/1/CWLPG020		**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,094 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																		
5/90180/1/CWLPG020		**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,936 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																		
6/90180/1/CWLPG020		**0**	**15-02-2024**	**23**	**AX84**			**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000164		Acceptable					19-02-2024		
7/90180/1/CWLPG020		**0**	**15-02-2024**	**23**	**AX84**			**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000165		Acceptable					19-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
7/90180/1/CWLPG020		**0**	**15-02-2024**	**23**	**AX84**		**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
1/90180/1/CWLPG021		**0**	**02-01-2024**	**8**	**AX63**		**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000058		Acceptable					07-02-2024		
2/90180/1/CWLPG021		**0**	**02-01-2024**	**8**	**AX63**		**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000059		Acceptable					07-02-2024		
6/90180/1/CWLPG021		**0**	**08-02-2024**				**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable								
	Ref. dossier SCANDIUZZI - 1723000223																	
7/90180/1/CWLPG021		**0**	**08-02-2024**				**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable								
	Ref. dossier SCANDIUZZI - 1723000223																	
8/90180/1/CWLPG021		**0**	**08-02-2024**				**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,099 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable								
	Ref. dossier SCANDIUZZI - 1723000223																	
9/90180/1/CWLPG021		**0**	**08-02-2024**				**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable								
	Ref. dossier SCANDIUZZI - 1723000223																	
10/90180/1/CWLPG021		**0**	**08-02-2024**				**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,936 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable								
	Ref. dossier SCANDIUZZI - 1723000223																	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90180/1/CWLPG022	**0**	**08-02-2024**					**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**		**BW**	**08-02-2024**
I	UT		FIN Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
2/90180/1/CWLPG022	**0**	**07-02-2024**	**50**	**AX25**	**Repair done**		**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**		**BW**	**07-03-2024**
I	UT		FIN Weld Completion				100 %			Acceptable						
	UT	R1	DRI After Repair		IDL-QCI-UT 0215 03	MM	100 %	000481		Acceptable				07-03-2024		
Ref. dossier SCANDIUZZI - 1723000223																
3/90180/1/CWLPG022	**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,099 m**	**M**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
4/90180/1/CWLPG022	**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
5/90180/1/CWLPG022	**0**	**08-02-2024**					**PL**		**950,00 mm**	**15,00 mm**	**K**	**0,936 m**	**M**	**C.S.**		**T**	**08-02-2024**
I	UT		FIN Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
6/90180/1/CWLPG022	**0**	**06-02-2024**	**11**	**AX25**			**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
I	UT		FIN Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000068		Acceptable				09-02-2024		
7/90180/1/CWLPG022	**0**	**06-02-2024**	**11**	**AX25**			**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
I	UT		FIN Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000069		Acceptable				09-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90180/1/CWLPG023		**0**	**07-02-2024**	**13**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000075		Acceptable					09-02-2024		
2/90180/1/CWLPG023		**0**	**07-02-2024**	**13**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000076		Acceptable					09-02-2024		
3/90180/1/CWLPG023		**0**	**07-02-2024**	**13**	**AX63**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000077		Acceptable					09-02-2024		
4/90180/1/CWLPG023		**0**	**07-02-2024**	**13**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000078		Acceptable					09-02-2024		
5/90180/1/CWLPG023		**0**	**07-02-2024**	**13**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000079		Acceptable					09-02-2024		
6/90180/1/CWLPG023		**0**	**07-02-2024**	**13**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000074		Acceptable					09-02-2024		
1/90180/1/CWLPG031		**0**	**24-01-2024**	**1**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000011		Acceptable					29-01-2024		
2/90180/1/CWLPG031		**0**	**24-01-2024**	**1**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000012		Acceptable					29-01-2024		
3/90180/1/CWLPG031		**0**	**24-01-2024**	**1**	**AX63**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000013		Acceptable					29-01-2024		
4/90180/1/CWLPG031		**0**	**24-01-2024**	**1**	**AX63**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000014		Acceptable					29-01-2024		
5/90180/1/CWLPG031		**0**	**24-01-2024**	**1**	**AX63**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000015		Acceptable					29-01-2024		
6/90180/1/CWLPG031		**0**	**07-02-2024**	**50**	**AX25**	**Repair done**		**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**07-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
6/90180/1/CWLPG031		**0**	**07-02-2024**	**50**	**AX25**	**Repair done**		**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**07-03-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			UT R1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	000482		Acceptable					07-03-2024		
			Ref. dossier SCANDIUZZI - 1723000223															
7/90180/1/CWLPG031		**0**	**07-02-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**19-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
8/90180/1/CWLPG031		**0**	**07-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,100 m**	**M**	**C.S.**			**T**	**07-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
9/90180/1/CWLPG031		**0**	**07-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**07-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
10/90180/1/CWLPG031		**0**	**07-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,946 m**	**M**	**C.S.**			**T**	**07-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90180/1/CWLPG038		**0**	**07-02-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
2/90180/1/CWLPG038		**0**	**07-02-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
3/90180/1/CWLPG038		**0**	**07-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,100 m**	**M**	**C.S.**			**T**	**07-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
4/90180/1/CWLPG038		**0**	**07-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**07-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
5/90180/1/CWLPG038		**0**	**07-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**			**T**	**07-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
6/90180/1/CWLPG038		**0**	**24-01-2024**	**1**	**AX25**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000016		Acceptable					29-01-2024		
7/90180/1/CWLPG038		**0**	**24-01-2024**	**1**	**AX25**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000017		Acceptable					29-01-2024		
8/90180/1/CWLPG038		**0**	**24-01-2024**	**1**	**AX25**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,078 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000018		Acceptable					29-01-2024		
9/90180/1/CWLPG038		**0**	**24-01-2024**	**1**	**AX25**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000019		Acceptable					29-01-2024		
10/90180/1/CWLPG038		**0**	**24-01-2024**	**1**	**AX25**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000020		Acceptable					29-01-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
10/90180/1/CWLPG038	**0**	**24-01-2024**	**1**	**AX25**		**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**

Totals per DWG	**90180**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**30,65 m**	**80 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**30,65 m**	**80 Nr. Welds**
		Accepted	**30,65 m**	**80 Nr. Welds**
		Repaired	**0,08 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90181/1/CWLNO010	**1**	**27-05-2024**	**328**	**AX90**			**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,130 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	001433		Acceptable				03-06-2024		
2/90181/1/CWLNO010	**1**	**27-05-2024**	**328**	**AX90**			**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,130 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	001434		Acceptable				03-06-2024		
3/90181/1/CWLNO010	**1**	**27-05-2024**	**328**	**AX90**			**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,130 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	001435		Acceptable				03-06-2024		
4/90181/1/CWLNO010	**1**	**27-05-2024**	**328**	**AX90**			**PL**	**142,00 mm**	**25,00 mm**	**1/2V**	**0,130 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	100 %	001436		Acceptable				03-06-2024		
5/90181/1/CWLNO010	**1**	**29-05-2024**	**325**	**AX414**			**PL**	**327,80 mm**	**30,00 mm**	**1/2V**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	001442		Acceptable				03-06-2024		
6/90181/1/CWLNO010	**1**	**28-05-2024**	**326**	**AX414**			**PL**	**326,70 mm**	**30,00 mm**	**1/2V**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	001439		Acceptable				03-06-2024		
7/90181/1/CWLNO010	**1**	**31-05-2024**	**327**	**AX414**			**PL**	**327,80 mm**	**30,00 mm**	**1/2V**	**0,171 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	001437		Acceptable				03-06-2024		
9/90181/1/CWLNO010	**1**	**31-05-2024**	**327**	**AX414**			**PL**	**326,70 mm**	**30,00 mm**	**1/2V**	**0,171 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	001438		Acceptable				03-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90181/1/CWLPG013		**1**	**13-02-2024**	**21**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000137		Acceptable					16-02-2024		
2/90181/1/CWLPG013		**1**	**13-02-2024**	**21**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000138		Acceptable					16-02-2024		
3/90181/1/CWLPG013		**1**	**13-02-2024**	**21**	**AX426**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000139		Acceptable					16-02-2024		
4/90181/1/CWLPG013		**1**	**16-02-2024**	**26**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000176		Acceptable					20-02-2024		
5/90181/1/CWLPG013		**1**	**16-02-2024**	**26**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000177		Acceptable					20-02-2024		
6/90181/1/CWLPG013		**1**	**16-02-2024**	**26**	**AX84**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000184		Acceptable					20-02-2024		
1/90181/1/CWLPG035		**1**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
2/90181/1/CWLPG035		**1**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
3/90181/1/CWLPG035		**1**	**08-02-2024**					**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
4/90181/1/CWLPG035		**1**	**25-01-2024**	**2**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000006		Acceptable					29-01-2024		
5/90181/1/CWLPG035		**1**	**25-01-2024**	**2**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
5/90181/1/CWLPG035		**1**	**25-01-2024**	**2**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000007		Acceptable					29-01-2024		
6/90181/1/CWLPG035		**1**	**25-01-2024**	**2**	**AX63**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000008		Acceptable					29-01-2024		
7/90181/1/CWLPG035		**1**	**25-01-2024**	**2**	**AX63**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000009		Acceptable					29-01-2024		
8/90181/1/CWLPG035		**1**	**25-01-2024**	**2**	**AX63**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000010		Acceptable					29-01-2024		
1/90181/1/CWLPG037		**1**	**12-02-2024**	**17**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000103		Acceptable					14-02-2024		
2/90181/1/CWLPG037		**1**	**12-02-2024**	**17**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000104		Acceptable					14-02-2024		
3/90181/1/CWLPG037		**1**	**12-02-2024**	**17**	**AX426**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,098 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000121		Acceptable					14-02-2024		
4/90181/1/CWLPG037		**1**	**12-02-2024**	**17**	**AX426**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000122		Acceptable					14-02-2024		
5/90181/1/CWLPG037		**1**	**12-02-2024**	**17**	**AX426**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,934 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000123		Acceptable					14-02-2024		
6/90181/1/CWLPG037		**1**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
7/90181/1/CWLPG037		**1**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
7/90181/1/CWLPG037		**1**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	Ref. dossier SCANDIUZZI - 1723000223																	
8/90181/1/CWLPG037		**1**	**08-02-2024**					**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**08-02-2024**
I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
1/90181/1/CWLPG039		**1**	**16-02-2024**	**26**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0215 03	MM	100 %	000178		Acceptable					20-02-2024		
2/90181/1/CWLPG039		**1**	**16-02-2024**	**26**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0215 03	MM	100 %	000179		Acceptable					20-02-2024		
3/90181/1/CWLPG039		**1**	**16-02-2024**	**26**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0222 02	MM	100 %	000185		Acceptable					20-02-2024		
4/90181/1/CWLPG039		**1**	**16-02-2024**	**26**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0222 02	MM	100 %	000186		Acceptable					20-02-2024		
5/90181/1/CWLPG039		**1**	**16-02-2024**	**26**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0222 02	MM	100 %	000187		Acceptable					20-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90181/1/CWLPG040		**1**	**08-02-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
2/90181/1/CWLPG040		**1**	**08-02-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
3/90181/1/CWLPG040		**1**	**08-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,100 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
4/90181/1/CWLPG040		**1**	**08-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
5/90181/1/CWLPG040		**1**	**08-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,944 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
6/90181/1/CWLPG040		**1**	**15-02-2024**	**25**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000182		Acceptable					20-02-2024		
7/90181/1/CWLPG040		**1**	**15-02-2024**	**25-119**	**AX393**	**Welding + Repair done**		**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000183		Acceptable					20-02-2024		
			UT R1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	000632		Acceptable					18-03-2024		
8/90181/1/CWLPG040		**1**	**15-02-2024**	**25**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000191		Acceptable					20-02-2024		
9/90181/1/CWLPG040		**1**	**15-02-2024**	**25**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000192		Acceptable					20-02-2024		
10/90181/1/CWLPG040		**1**	**15-02-2024**	**25**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
10/90181/1/CWLPG040		**1**	**15-02-2024**	**25**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000193		Acceptable					20-02-2024		
1/90181/1/CWLPG041		**1**	**16-02-2024**	**26**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000180		Acceptable					20-02-2024		
2/90181/1/CWLPG041		**1**	**16-02-2024**	**26-119**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2024**
					AX90	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000181		Acceptable					20-02-2024		
		UT	R1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	000631		Acceptable					18-03-2024		
3/90181/1/CWLPG041		**1**	**16-02-2024**	**26**	**AX426**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000188		Acceptable					20-02-2024		
4/90181/1/CWLPG041		**1**	**16-02-2024**	**26**	**AX426**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000189		Acceptable					20-02-2024		
5/90181/1/CWLPG041		**1**	**16-02-2024**	**26**	**AX426**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000190		Acceptable					20-02-2024		
6/90181/1/CWLPG041		**1**	**08-02-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
7/90181/1/CWLPG041		**1**	**08-02-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
8/90181/1/CWLPG041		**1**	**08-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,100 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
9/90181/1/CWLPG041		**1**	**08-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
9/90181/1/CWLPG041		**1**	**08-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**			**T**	**08-02-2024**
			Ref. dossier SCANDIUZZI - 1723000223															
10/90181/1/CWLPG041		**1**	**08-02-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,946 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %		Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
1/90181/1/CWLPG043		**1**	**08-02-2024**					**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %		Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
2/90181/1/CWLPG043		**1**	**08-02-2024**					**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %		Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
3/90181/1/CWLPG043		**1**	**08-02-2024**					**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion					100 %		Acceptable							
			Ref. dossier SCANDIUZZI - 1723000223															
4/90181/1/CWLPG043		**1**	**12-02-2024**	**17**	**AX427**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000124	Acceptable					14-02-2024		
5/90181/1/CWLPG043		**1**	**12-02-2024**	**17**	**AX427**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000105	Acceptable					14-02-2024		
6/90181/1/CWLPG043		**1**	**12-02-2024**	**17**	**AX427**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000106	Acceptable					14-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90181/1/CWLPG045	**1**	**12-02-2024**	**17**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000092		Acceptable				14-02-2024		
2/90181/1/CWLPG045	**1**	**12-02-2024**	**17**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000093		Acceptable				14-02-2024		
3/90181/1/CWLPG045	**1**	**12-02-2024**	**17**	**AX63**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000094		Acceptable				14-02-2024		
4/90181/1/CWLPG045	**1**	**08-02-2024**					**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**		**BW**	**08-02-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
5/90181/1/CWLPG045	**1**	**08-02-2024**					**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**		**BW**	**08-02-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
6/90181/1/CWLPG045	**1**	**08-02-2024**					**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**		**BW**	**08-02-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90181/1/CWLPG046		**1**	**08-02-2024**	**14**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000081		Acceptable				10-02-2024			
2/90181/1/CWLPG046		**1**	**08-02-2024**	**14**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000082		Acceptable				10-02-2024			
3/90181/1/CWLPG046		**1**	**08-02-2024**	**14**	**AX63**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000083		Acceptable				10-02-2024			
4/90181/1/CWLPG046		**1**	**09-02-2024**	**16**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000089		Acceptable				13-02-2024			
5/90181/1/CWLPG046		**1**	**09-02-2024**	**16**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000090		Acceptable				13-02-2024			
6/90181/1/CWLPG046		**1**	**09-02-2024**	**16**	**AX63**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000091		Acceptable				13-02-2024			
1/90181/1/CWLPG047		**1**	**13-02-2024**	**19**	**AX427**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000115		Acceptable				15-02-2024			
2/90181/1/CWLPG047		**1**	**13-02-2024**	**19**	**AX427**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000116		Acceptable				15-02-2024			
3/90181/1/CWLPG047		**1**	**13-02-2024**	**19**	**AX427**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000117		Acceptable				15-02-2024			
4/90181/1/CWLPG047		**1**	**13-05-2024**	**290**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001295		Acceptable				15-05-2024			
5/90181/1/CWLPG047		**1**	**13-05-2024**	**290**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001296		Acceptable				15-05-2024			
6/90181/1/CWLPG047		**1**	**13-05-2024**	**290**	**AX425**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-05-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
6/90181/1/CWLPG047		**1**	**13-05-2024**	**290**	**AX425**		**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-05-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	TN	100 %	001297		Acceptable					15-05-2024		

Totals per DWG	**90181**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**34,62 m**	**79 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**34,62 m**	**79 Nr. Welds**
		Accepted	**34,62 m**	**79 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90182/1/CWLPG002	**0**	**29-01-2024**	**4**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000021		Acceptable				31-01-2024		
2/90182/1/CWLPG002	**0**	**29-01-2024**	**4**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000022		Acceptable				31-01-2024		
6/90182/1/CWLPG002	**0**	**30-01-2024**	**5**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000041		Acceptable				05-02-2024		
7/90182/1/CWLPG002	**0**	**30-01-2024**	**5**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000042		Acceptable				05-02-2024		
1/90182/1/CWLPG003	**0**	**14-02-2024**	**24**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000160		Acceptable				19-02-2024		
2/90182/1/CWLPG003	**0**	**14-02-2024**	**24**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000161		Acceptable				19-02-2024		
6/90182/1/CWLPG003	**0**	**13-02-2024**	**19**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000118		Acceptable				15-02-2024		
7/90182/1/CWLPG003	**0**	**13-02-2024**	**19**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000119		Acceptable				15-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90182/1/CWLPG005	**0**	**31-01-2024**	**7**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000043		Acceptable				05-02-2024		
2/90182/1/CWLPG005	**0**	**31-01-2024**	**7**	**AX63**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000044		Acceptable				05-02-2024		
3/90182/1/CWLPG005	**0**	**31-01-2024**	**7**	**AX63**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000045		Acceptable				05-02-2024		
4/90182/1/CWLPG005	**0**	**02-02-2024**	**9**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000061		Acceptable				07-02-2024		
5/90182/1/CWLPG005	**0**	**02-02-2024**	**9**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000062		Acceptable				07-02-2024		
1/90182/1/CWLPG009	**0**	**06-02-2024**	**12**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000071		Acceptable				09-02-2024		
2/90182/1/CWLPG009	**0**	**06-02-2024**	**12**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000072		Acceptable				09-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90182/1/CWLPG010		**0**	**11-05-2024**	**288**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001244		Acceptable					14-05-2024		
2/90182/1/CWLPG010		**0**	**11-05-2024**	**288**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001245		Acceptable					14-05-2024		
1/90182/1/CWLPG011		**0**	**05-02-2024**	**10**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000063		Acceptable					07-02-2024		
2/90182/1/CWLPG011		**0**	**05-02-2024**	**10**	**AX63**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000064		Acceptable					07-02-2024		
6/90182/1/CWLPG011		**0**	**02-01-2024**	**8**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000060		Acceptable					07-02-2024		
7/90182/1/CWLPG011		**0**	**02-01-2024**	**8**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000054		Acceptable					07-02-2024		
8/90182/1/CWLPG011		**0**	**02-01-2024**	**8**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,099 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000055		Acceptable					07-02-2024		
9/90182/1/CWLPG011		**0**	**02-01-2024**	**8**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000056		Acceptable					07-02-2024		
10/90182/1/CWLPG011		**0**	**02-01-2024**	**8**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,936 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000057		Acceptable					07-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90182/1/CWLPG012	**0**	**16-02-2024**	**28**	**AX427**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000199		Acceptable				21-02-2024		
2/90182/1/CWLPG012	**0**	**16-02-2024**	**28**	**AX427**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000233		Acceptable				23-02-2024		
3/90182/1/CWLPG012	**0**	**16-02-2024**	**28**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,099 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000203		Acceptable				21-02-2024		
4/90182/1/CWLPG012	**0**	**16-02-2024**	**28**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,092 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000204		Acceptable				21-02-2024		
5/90182/1/CWLPG012	**0**	**16-02-2024**	**28**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,937 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000205		Acceptable				21-02-2024		
6/90182/1/CWLPG012	**0**	**13-05-2024**	**287**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001246		Acceptable				14-05-2024		
7/90182/1/CWLPG012	**0**	**13-05-2024**	**287**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001247		Acceptable				14-05-2024		
1/90182/1/CWLPG027	**0**	**13-02-2024**	**21**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000140		Acceptable				16-02-2024		
2/90182/1/CWLPG027	**0**	**13-02-2024**	**21**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000141		Acceptable				16-02-2024		
6/90182/1/CWLPG027	**0**	**15-02-2024**	**23**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000168		Acceptable				19-02-2024		
7/90182/1/CWLPG027	**0**	**15-02-2024**	**23**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000169		Acceptable				19-02-2024		
8/90182/1/CWLPG027	**0**	**15-02-2024**	**23**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
8/90182/1/CWLPG027		**0**	**15-02-2024**	**23**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000172		Acceptable					19-02-2024		
1/90182/1/CWLPG028		**0**	**15-02-2024**	**23**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000170		Acceptable					19-02-2024		
2/90182/1/CWLPG028		**0**	**15-02-2024**	**23**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000171		Acceptable					19-02-2024		
6/90182/1/CWLPG028		**0**	**16-02-2024**	**28**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000200		Acceptable					21-02-2024		
7/90182/1/CWLPG028		**0**	**16-02-2024**	**28**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000232		Acceptable					23-02-2024		
8/90182/1/CWLPG028		**0**	**16-02-2024**	**28**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,099 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000208		Acceptable					21-02-2024		
9/90182/1/CWLPG028		**0**	**16-02-2024**	**28**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000209		Acceptable					21-02-2024		
10/90182/1/CWLPG028		**0**	**16-02-2024**	**28**	**AX427**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,936 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000210		Acceptable					21-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90182/1/CWLPG029		**0**	**13-02-2024**	**21**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000142		Acceptable					16-02-2024		
2/90182/1/CWLPG029		**0**	**13-02-2024**	**21**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000143		Acceptable					16-02-2024		
3/90182/1/CWLPG029		**0**	**13-02-2024**	**21**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,103 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000144		Acceptable					16-02-2024		
4/90182/1/CWLPG029		**0**	**13-02-2024**	**21**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000145		Acceptable					16-02-2024		
5/90182/1/CWLPG029		**0**	**13-02-2024**	**21**	**AX393**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,946 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000146		Acceptable					16-02-2024		
6/90182/1/CWLPG029		**0**	**15-02-2024**	**23**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000162		Acceptable					19-02-2024		
7/90182/1/CWLPG029		**0**	**15-02-2024**	**23**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000163		Acceptable					19-02-2024		

Totals per DWG	**90182**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**17,83 m**	**50 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**17,83 m**	**50 Nr. Welds**
		Accepted	**17,83 m**	**50 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90183/1/CWLPG001	**0**	**29-01-2024**	**4**	**AX25**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000023		Acceptable				31-01-2024		
2/90183/1/CWLPG001	**0**	**29-01-2024**	**4**	**AX25**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000024		Acceptable				31-01-2024		
6/90183/1/CWLPG001	**0**	**29-01-2024**	**4**	**AX25**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000025		Acceptable				31-01-2024		
7/90183/1/CWLPG001	**0**	**29-01-2024**	**4**	**AX25**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000026		Acceptable				31-01-2024		
1/90183/1/CWLPG004	**0**	**13-02-2024**	**19**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000125		Acceptable				15-02-2024		
2/90183/1/CWLPG004	**0**	**13-02-2024**	**19**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000126		Acceptable				15-02-2024		
6/90183/1/CWLPG004	**0**	**16-02-2024**	**28**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000211		Acceptable				21-02-2024		
7/90183/1/CWLPG004	**0**	**16-02-2024**	**28**	**AX393**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000212		Acceptable				21-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90183/1/CWLPG006	**0**	**31-01-2024**	**7**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000046		Acceptable				05-02-2024		
2/90183/1/CWLPG006	**0**	**31-01-2024**	**7**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000047		Acceptable				05-02-2024		
3/90183/1/CWLPG006	**0**	**31-01-2024**	**7**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,099 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000048		Acceptable				05-02-2024		
4/90183/1/CWLPG006	**0**	**31-01-2024**	**7**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,093 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000049		Acceptable				05-02-2024		
5/90183/1/CWLPG006	**0**	**31-01-2024**	**7**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,936 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000050		Acceptable				05-02-2024		
6/90183/1/CWLPG006	**0**	**30-01-2024**	**6**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000051		Acceptable				05-02-2024		
7/90183/1/CWLPG006	**0**	**30-01-2024**	**6**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000052		Acceptable				05-02-2024		
1/90183/1/CWLPG007	**0**	**06-02-2024**	**12**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000073		Acceptable				09-02-2024		
2/90183/1/CWLPG007	**0**	**06-02-2024**	**12**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000070		Acceptable				09-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90183/1/CWLPG008		**0**	**11-05-2024**	**285**	**AX411**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001242		Acceptable				14-05-2024			
2/90183/1/CWLPG008		**0**	**11-05-2024**	**285**	**AX411**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001243		Acceptable				14-05-2024			
1/90183/1/CWLPG024		**0**	**29-01-2024**	**4**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000027		Acceptable				31-01-2024			
2/90183/1/CWLPG024		**0**	**29-01-2024**	**4**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000028		Acceptable				31-01-2024			
6/90183/1/CWLPG024		**0**	**30-01-2024**	**6**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000053		Acceptable				07-02-2024			
7/90183/1/CWLPG024		**0**	**30-01-2024**	**6**	**AX63**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000035		Acceptable				02-02-2024			
8/90183/1/CWLPG024		**0**	**30-01-2024**	**6**	**AX63**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000036		Acceptable				02-02-2024			
9/90183/1/CWLPG024		**0**	**30-01-2024**	**6**	**AX63**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000037		Acceptable				02-02-2024			
10/90183/1/CWLPG024		**0**	**30-01-2024**	**6**	**AX63**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,954 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000038		Acceptable				02-02-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90183/1/CWLPG025	**0**	**05-02-2024**	**10**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000065		Acceptable				07-02-2024		
2/90183/1/CWLPG025	**0**	**05-02-2024**	**10**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000066		Acceptable				07-02-2024		
3/90183/1/CWLPG025	**0**	**05-02-2024**	**10**	**AX25**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000067		Acceptable				07-02-2024		
4/90183/1/CWLPG025	**0**	**30-01-2024**	**5**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000039		Acceptable				02-02-2024		
5/90183/1/CWLPG025	**0**	**30-01-2024**	**5**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000040		Acceptable				02-02-2024		
1/90183/1/CWLPG026	**0**	**16-02-2024**	**28**	**AX393**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000197		Acceptable				21-02-2024		
2/90183/1/CWLPG026	**0**	**16-02-2024**	**28**	**AX393**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000198		Acceptable				21-02-2024		
6/90183/1/CWLPG026	**0**	**13-02-2024**	**21**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000147		Acceptable				16-02-2024		
7/90183/1/CWLPG026	**0**	**13-02-2024**	**21**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000148		Acceptable				16-02-2024		
8/90183/1/CWLPG026	**0**	**13-02-2024**	**21**	**AX84**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000149		Acceptable				16-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90183/1/CWLPG030		**0**	**19-02-2024**	**30-50**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
					AX90	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000195		Repair				0,014 m	21-02-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	000483		Acceptable					07-03-2024		
2/90183/1/CWLPG030		**0**	**19-02-2024**	**30**	**AX426**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000196		Acceptable					21-02-2024		
1/90183/1/CWLPG032		**0**	**20-02-2024**	**34**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000236		Acceptable					23-02-2024		
2/90183/1/CWLPG032		**0**	**20-02-2024**	**34**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000237		Acceptable					23-02-2024		
3/90183/1/CWLPG032		**0**	**20-02-2024**	**34**	**AX90**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000238		Acceptable					23-02-2024		
4/90183/1/CWLPG032		**0**	**20-02-2024**	**34**	**AX90**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000239		Acceptable					23-02-2024		
5/90183/1/CWLPG032		**0**	**20-02-2024**	**34**	**AX90**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,943 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000240		Acceptable					23-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90183/1/CWLPG036		**0**	**12-02-2024**	**17**	**AX393**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000095		Acceptable					14-02-2024		
2/90183/1/CWLPG036		**0**	**12-02-2024**	**17**	**AX393**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000096		Acceptable					14-02-2024		
3/90183/1/CWLPG036		**0**	**12-02-2024**	**17**	**AX393**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000097		Acceptable					14-02-2024		
4/90183/1/CWLPG036		**0**	**12-02-2024**	**17**	**AX393**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000098		Acceptable					14-02-2024		
5/90183/1/CWLPG036		**0**	**12-02-2024**	**17**	**AX393**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000099		Acceptable					14-02-2024		
6/90183/1/CWLPG036		**0**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
7/90183/1/CWLPG036		**0**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
8/90183/1/CWLPG036		**0**	**08-02-2024**					**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90183/1/CWLPG044		**0**	**08-02-2024**				**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723000223															
2/90183/1/CWLPG044		**0**	**08-02-2024**				**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723000223															
3/90183/1/CWLPG044		**0**	**08-02-2024**				**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
		Ref. dossier SCANDIUZZI - 1723000223															
4/90183/1/CWLPG044		**0**	**12-02-2024**	**17**	**AX84**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000107		Acceptable				14-02-2024			
5/90183/1/CWLPG044		**0**	**12-02-2024**	**17-50**	**AX84**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
					AX393	**Repair done**											
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000108		Acceptable				14-02-2024			
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 03	MM	100 %	000484		Acceptable				07-03-2024			
6/90183/1/CWLPG044		**0**	**12-02-2024**	**17**	**AX84**		**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000109		Acceptable				14-02-2024			

Totals per DWG	**90183**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**21,41 m**	**57 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**21,41 m**	**57 Nr. Welds**
		Accepted	**21,41 m**	**57 Nr. Welds**
		Repaired	**0,01 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90184/1/CWLPG033		**0**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
2/90184/1/CWLPG033		**0**	**08-02-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
3/90184/1/CWLPG033		**0**	**08-02-2024**					**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
4/90184/1/CWLPG033		**0**	**25-01-2024**	**2**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000005		Acceptable					29-01-2024		
5/90184/1/CWLPG033		**0**	**25-01-2024**	**2**	**AX25**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000001		Acceptable					29-01-2024		
6/90184/1/CWLPG033		**0**	**25-01-2024**	**2**	**AX25**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,098 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000002		Acceptable					29-01-2024		
7/90184/1/CWLPG033		**0**	**25-01-2024**	**2**	**AX25**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,102 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000003		Acceptable					29-01-2024		
8/90184/1/CWLPG033		**0**	**25-01-2024**	**2**	**AX25**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,942 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-01-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000004		Acceptable					29-01-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90184/1/CWLPG042		**0**	**12-02-2024**	**17**	**AX25**		**PL**		**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000100		Acceptable				14-02-2024		
2/90184/1/CWLPG042		**0**	**12-02-2024**	**17**	**AX25**		**PL**		**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000101		Acceptable				14-02-2024		
3/90184/1/CWLPG042		**0**	**12-02-2024**	**17**	**AX25**		**PL**		**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000102		Acceptable				14-02-2024		
4/90184/1/CWLPG042		**0**	**08-02-2024**				**PL**		**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**			**BW**	**08-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
5/90184/1/CWLPG042		**0**	**08-02-2024**				**PL**		**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**			**BW**	**08-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
6/90184/1/CWLPG042		**0**	**08-02-2024**				**PL**		**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**08-02-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90184/1/CWLPG048		**0**	**08-02-2024**	**14**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000084		Acceptable					10-02-2024		
2/90184/1/CWLPG048		**0**	**08-02-2024**	**14**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000085		Acceptable					10-02-2024		
3/90184/1/CWLPG048		**0**	**08-02-2024**	**14**	**AX25**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000080		Acceptable					10-02-2024		
4/90184/1/CWLPG048		**0**	**01-01-2024**	**15**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000086		Acceptable					13-02-2024		
5/90184/1/CWLPG048		**0**	**01-01-2024**	**15**	**AX25**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000087		Acceptable					13-02-2024		
6/90184/1/CWLPG048		**0**	**01-01-2024**	**15**	**AX25**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000088		Acceptable					13-02-2024		
1/90184/1/CWLPG049		**0**	**20-02-2024**	**34**	**AX393**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000241		Acceptable					23-02-2024		
2/90184/1/CWLPG049		**0**	**20-02-2024**	**34**	**AX393**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000234		Acceptable					23-02-2024		
3/90184/1/CWLPG049		**0**	**20-02-2024**	**34**	**AX393**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000235		Acceptable					23-02-2024		
4/90184/1/CWLPG049		**0**	**13-05-2024**	**287**	**AX411**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001248		Acceptable					14-05-2024		
5/90184/1/CWLPG049		**0**	**13-05-2024**	**287**	**AX411**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001249		Acceptable					14-05-2024		
6/90184/1/CWLPG049		**0**	**13-05-2024**	**287**	**AX411**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-05-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
6/90184/1/CWLPG049		**0**	**13-05-2024**	**287**	**AX411**		**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-05-2024**
I	UT		FIN	Weld Completion	IDL-QCI-UT 0215 03	TN	100 %	001250		Acceptable					14-05-2024		

Totals per DWG	**90184**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**13,79 m**	**26 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,79 m**	**26 Nr. Welds**
		Accepted	**13,79 m**	**26 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90188/1/CWBR015	**0**	**26-03-2024**			**PL**		**600,00 mm**	**20,00 mm**	**X**	**8,736 m**	**P**	**C.S.**			**BW** **26-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier CIMOLAI															
1/90188/1/CWBR025	**0**	**26-03-2024**			**PL**		**600,00 mm**	**20,00 mm**	**X**	**9,371 m**	**P**	**C.S.**			**BW** **26-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier CIMOLAI															
1/90188/1/CWLG011	**0**	**26-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**X**	**3,740 m**	**P**	**C.S.**			**BW** **26-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier CIMOLAI															
1/90188/1/CWLG013	**0**	**26-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**X**	**3,740 m**	**P**	**C.S.**			**BW** **26-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
Ref. dossier CIMOLAI															

Totals per DWG	**90188**	**Prefabrication**	**25,59 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**25,59 m**	**4 Nr. Welds**
		Accepted	**25,59 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90190/1/CWBR016	**0**	**13-03-2024**			**PL**		**600,00 mm**	**20,00 mm**	**X**	**9,371 m**	**P**	**C.S.**		**BW**	**13-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
	Ref. dossier CIMOLAI														
1/90190/1/CWBR026	**0**	**13-03-2024**			**PL**		**600,00 mm**	**20,00 mm**	**X**	**9,371 m**	**P**	**C.S.**		**BW**	**13-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
	See Dossier CIMOLAI														
1/90190/1/CWLG012	**0**	**26-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**X**	**3,740 m**	**P**	**C.S.**		**BW**	**26-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
	Ref. dossier CIMOLAI														
1/90190/1/CWLG014	**0**	**26-03-2024**			**PL**		**800,00 mm**	**20,00 mm**	**X**	**3,740 m**	**P**	**C.S.**		**BW**	**26-03-2024**
I	UT	FIN	Weld Completion			100 %			Acceptable						
	Ref. dossier CIMOLAI														

Totals per DWG	**90190**	**Prefabrication**	**26,22 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**26,22 m**	**4 Nr. Welds**
		Accepted	**26,22 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90191/1/CWLG008		**1**	**08-02-2024**	**1**	**AX416**		**PL**	**406,40 mm**	**12,70 mm**	**V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-02-2024**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	000159		Acceptable					16-02-2024		

Totals per DWG	**90191**	**Prefabrication**	**1,28 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,28 m**	**1 Nr. Welds**
		Accepted	**1,28 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90192/1/CWBR001		**2**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**7,708 m**	**P**	**C.S.**			**BW**	**13-03-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
	See Dossier CIMOLAI																
2/90192/1/CWBR001		**2**	**28-08-2024**	**131**	**AX416**		**PL**	**550,00 mm**	**20,00 mm**	**V**	**1,727 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-10-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	BLU	100 %	002289		Acceptable					05-09-2024		
3/90192/1/CWBR001		**2**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**0,633 m**	**P**	**C.S.**			**BW**	**13-03-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
	See Dossier CIMOLAI																
4/90192/1/CWBR001		**2**	**22-08-2024**	**130**	**AX84**		**PL**	**550,00 mm**	**20,00 mm**	**V**	**1,727 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-10-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	100 %	002248		Acceptable					23-08-2024		

Totals per DWG	**90192**	**Prefabrication**	**11,80 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**11,80 m**	**4 Nr. Welds**
		Accepted	**11,80 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90193/1/CWBR027		**1**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**7,708 m**	**P**	**C.S.**			**BW**	**13-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							
See Dossier CIMOLAI																	
2/90193/1/CWBR027		**1**	**07-11-2024**	**136**	**AX84**		**PL**	**550,00 mm**	**20,00 mm**	**V**	**1,727 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**12-11-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002446		Acceptable				12-11-2024			
3/90193/1/CWBR027		**1**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**0,633 m**	**P**	**C.S.**			**BW**	**13-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							
See Dossier CIMOLAI																	

Totals per DWG	**90193**	**Prefabrication**	**10,07 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**10,07 m**	**3 Nr. Welds**
		Accepted	**10,07 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90195/1/CWBR002		**2**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**7,708 m**	**P**	**C.S.**			**BW**	**13-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
See Dossier CIMOLAI																	
2/90195/1/CWBR002		**2**	**01-07-2024**	**126**	**AX393** **AX84**		**PL**	**550,00 mm**	**20,00 mm**	**V**	**1,727 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001679		Acceptable				04-07-2024			
3/90195/1/CWBR002		**2**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**0,633 m**	**P**	**C.S.**			**BW**	**13-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
See Dossier CIMOLAI																	

Totals per DWG	**90195**	**Prefabrication**	**10,07 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**10,07 m**	**3 Nr. Welds**
		Accepted	**10,07 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90196/1/CWBR028		**1**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**7,710 m**	**P**	**C.S.**			**BW**	**13-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							
See Dossier CIMOLAI																	
2/90196/1/CWBR028		**1**	**01-07-2024**	**126**	**AX63** **AX84**		**PL**	**550,00 mm**	**20,00 mm**	**V**	**1,727 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-07-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001680		Acceptable				04-07-2024			
3/90196/1/CWBR028		**1**	**13-03-2024**				**PL**	**550,00 mm**	**20,00 mm**	**X**	**0,631 m**	**P**	**C.S.**			**BW**	**13-03-2024**
I		UT	FIN	Weld Completion			100 %			Acceptable							
See Dossier CIMOLAI																	

Totals per DWG	**90196**	**Prefabrication**	**10,07 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**10,07 m**	**3 Nr. Welds**
		Accepted	**10,07 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90198/1/CWUPG005		**0**	**28-03-2024**	**178**	**AX25**			**PL**	**250,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000748		Acceptable					02-04-2024		
2/90198/1/CWUPG005		**0**	**28-03-2024**	**178**	**AX25**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000750		Acceptable					02-04-2024		
3/90198/1/CWUPG005		**0**	**28-03-2024**	**178**	**AX25**			**PL**	**250,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000749		Acceptable					02-04-2024		
4/90198/1/CWUPG005		**0**	**04-04-2024**	**188**	**AX90**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000777		Acceptable					05-04-2024		
5/90198/1/CWUPG005		**0**	**04-04-2024**	**188**	**AX90**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,960 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000781		Acceptable					05-04-2024		
6/90198/1/CWUPG005		**0**	**04-04-2024**	**188**	**AX90**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000778		Acceptable					05-04-2024		
1/90198/1/CWUPG006		**0**	**04-04-2024**	**188**	**AX90**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000779		Acceptable					05-04-2024		
2/90198/1/CWUPG006		**0**	**04-04-2024**	**188**	**AX90**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,960 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000780		Acceptable					05-04-2024		
3/90198/1/CWUPG006		**0**	**04-04-2024**	**188**	**AX90**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000773		Acceptable					05-04-2024		
4/90198/1/CWUPG006		**0**	**28-03-2024**	**178**	**AX25**			**PL**	**250,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000755		Acceptable					03-04-2024		
5/90198/1/CWUPG006		**0**	**28-03-2024**	**178**	**AX25**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000754		Acceptable					03-04-2024		
6/90198/1/CWUPG006		**0**	**28-03-2024**	**178**	**AX25**			**PL**	**250,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
6/90198/1/CWUPG006	**0**	**28-03-2024**	**178**	**AX25**			**PL**	**250,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000761		Acceptable					03-04-2024		
1/90198/1/CWUPG007	**0**	**01-03-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**01-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																	
2/90198/1/CWUPG007	**0**	**01-03-2024**					**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,960 m**	**M**	**C.S.**			**BW**	**01-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																	
3/90198/1/CWUPG007	**0**	**01-03-2024**					**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**01-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																	
4/90198/1/CWUPG007	**0**	**19-03-2024**	**156**	**AX84**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000691		Acceptable					26-03-2024		
5/90198/1/CWUPG007	**0**	**19-03-2024**	**156**	**AX84**			**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000693		Acceptable					26-03-2024		
6/90198/1/CWUPG007	**0**	**19-03-2024**	**156**	**AX84**			**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000692		Acceptable					26-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90198/1/CWUPG008		**0**	**19-03-2024**	**156**	**AX427**		**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000791		Acceptable					08-04-2024		
2/90198/1/CWUPG008		**0**	**19-03-2024**	**156**	**AX427**		**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000783		Acceptable					08-04-2024		
3/90198/1/CWUPG008		**0**	**19-03-2024**	**156**	**AX427**		**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000792		Acceptable					08-04-2024		
4/90198/1/CWUPG008		**0**	**04-03-2024**				**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																
5/90198/1/CWUPG008		**0**	**04-03-2024**				**PL**	**960,00 mm**	**15,00 mm**	**K**	**0,960 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																
6/90198/1/CWUPG008		**0**	**04-03-2024**				**PL**	**250,00 mm**	**20,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90198/1/CWUPG017		**0**	**23-03-2024**	**170**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000793		Acceptable					08-04-2024		
2/90198/1/CWUPG017		**0**	**23-03-2024**	**170**	**AX84**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000784		Acceptable					08-04-2024		
3/90198/1/CWUPG017		**0**	**23-03-2024**	**170**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000794		Acceptable					08-04-2024		
1/90198/1/CWUPG023		**0**	**06-04-2024**	**191-244**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2024**
					AX25	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000922		Repair				0,390 m	17-04-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0216 04	MM	100 %	001164		Acceptable					06-05-2024		
2/90198/1/CWUPG023		**0**	**06-04-2024**	**191**	**AX425**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000923		Acceptable					17-04-2024		
3/90198/1/CWUPG023		**0**	**06-04-2024**	**191**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000924		Acceptable					17-04-2024		
4/90198/1/CWUPG023		**0**	**25-03-2024**	**172**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000738		Acceptable					02-04-2024		
5/90198/1/CWUPG023		**0**	**25-03-2024**	**172**	**AX425**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000740		Acceptable					02-04-2024		
6/90198/1/CWUPG023		**0**	**25-03-2024**	**172**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000739		Acceptable					02-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90198/1/CWUPG024		**0**	**25-03-2024**	**172**	**AX25**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000737		Acceptable					02-04-2024		
2/90198/1/CWUPG024		**0**	**25-03-2024**	**172**	**AX25**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000741		Acceptable					02-04-2024		
3/90198/1/CWUPG024		**0**	**25-03-2024**	**172**	**AX25**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000736		Acceptable					02-04-2024		
4/90198/1/CWUPG024		**0**	**02-04-2024**	**183**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000756		Acceptable					03-04-2024		
5/90198/1/CWUPG024		**0**	**02-04-2024**	**183**	**AX425**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000753		Acceptable					03-04-2024		
6/90198/1/CWUPG024		**0**	**02-04-2024**	**183**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000757		Acceptable					03-04-2024		
1/90198/1/CWUPG025		**0**	**08-03-2024**					**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**			**BW**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
2/90198/1/CWUPG025		**0**	**08-03-2024**					**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**			**BW**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
3/90198/1/CWUPG025		**0**	**08-03-2024**					**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**			**BW**	**08-03-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
4/90198/1/CWUPG025		**0**	**16-03-2024**	**154**	**AX90**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000706		Acceptable					27-03-2024		
5/90198/1/CWUPG025		**0**	**16-03-2024**	**154**	**AX90**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
5/90198/1/CWUPG025	**0**	**16-03-2024**	**154**	**AX90**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000708		Acceptable				27-03-2024		
6/90198/1/CWUPG025	**0**	**16-03-2024**	**154**	**AX90**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000707		Acceptable				27-03-2024		
1/90198/1/CWUPG026	**0**	**06-03-2024**	**155**	**AX426**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000703		Acceptable				27-03-2024		
2/90198/1/CWUPG026	**0**	**16-03-2024**	**154**	**AX426**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000709		Acceptable				27-03-2024		
3/90198/1/CWUPG026	**0**	**16-03-2024**	**154**	**AX426**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000705		Acceptable				27-03-2024		
4/90198/1/CWUPG026	**0**	**08-03-2024**					**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**			**BW**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
5/90198/1/CWUPG026	**0**	**08-03-2024**					**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**			**BW**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																
6/90198/1/CWUPG026	**0**	**08-03-2024**					**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**			**BW**	**08-03-2024**
I	UT	FIN	Weld Completion				100 %			Acceptable						
Ref. dossier SCANDIUZZI - 1723000223																

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90198/1/CWUPG027	**0**	**03-04-2024**	**185**	**AX426**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000802		Acceptable				09-04-2024		
2/90198/1/CWUPG027	**0**	**03-04-2024**	**185**	**AX426**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000803		Acceptable				09-04-2024		
3/90198/1/CWUPG027	**0**	**03-04-2024**	**185**	**AX426**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000804		Acceptable				09-04-2024		
4/90198/1/CWUPG027	**0**	**03-04-2024**	**186**	**AX25**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000800		Acceptable				09-04-2024		
5/90198/1/CWUPG027	**0**	**03-04-2024**	**186**	**AX25**			**PL**	**920,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000812		Acceptable				09-04-2024		
6/90198/1/CWUPG027	**0**	**03-04-2024**	**186**	**AX25**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000801		Acceptable				09-04-2024		

Totals per DWG	**90198**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**30,39 m**	**57 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**30,39 m**	**57 Nr. Welds**
		Accepted	**30,39 m**	**57 Nr. Welds**
		Repaired	**0,39 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90199/1/CWULT001		**2**	**30-09-2024**	**433**	**AX393 AX416**			**PIPE**	**800,00 mm**	**30,00 mm**	**V**	**2,504 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**01-10-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0215 04	MM	100 %	002374		Acceptable				01-10-2024			
1/90199/1/CWULT002		**2**	**26-09-2024**	**428**	**AX393 AX416**			**PIPE**	**800,00 mm**	**30,00 mm**	**V**	**2,504 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**27-09-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	002372		Acceptable				27-09-2024			
1/90199/1/CWUPG001		**2**	**20-03-2024**	**160**	**AX426**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000719		Acceptable				28-03-2024			
2/90199/1/CWUPG001		**2**	**20-03-2024**	**160**	**AX426**			**PL**	**920,00 mm**	**20,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000729		Acceptable				28-03-2024			
3/90199/1/CWUPG001		**2**	**20-03-2024**	**160**	**AX426**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000720		Acceptable				28-03-2024			
4/90199/1/CWUPG001		**2**	**18-06-2024**	**353**	**AX411**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-06-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	001559		Acceptable				21-06-2024			
5/90199/1/CWUPG001		**2**	**18-06-2024**	**353**	**AX411**			**PL**	**920,00 mm**	**20,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-06-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001561		Acceptable				21-06-2024			
6/90199/1/CWUPG001		**2**	**18-06-2024**	**353**	**AX411**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-06-2024**
I	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	001560		Acceptable				21-06-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Conn	NOTE	Accept. Date
1/90199/1/CWUPG003			**2**		**04-03-2024**						**PL**		**500,00 mm**		**40,00 mm**		**K**		**0,500 m**		**M**	**C.S.**						**BW**	**04-03-2024**
	I	UT		FIN		Weld Completion						100 %						Acceptable											
	Ref. dossier SCANDIUZZI - 1723001792 / 93																												
2/90199/1/CWUPG003			**2**		**04-03-2024**						**PL**		**920,00 mm**		**20,00 mm**		**K**		**0,920 m**		**M**	**C.S.**						**BW**	**04-03-2024**
	I	UT		FIN		Weld Completion						100 %						Acceptable											
	Ref. dossier SCANDIUZZI - 1723001792 / 93																												
3/90199/1/CWUPG003			**2**		**04-03-2024**						**PL**		**500,00 mm**		**40,00 mm**		**K**		**0,500 m**		**M**	**C.S.**						**BW**	**04-03-2024**
	I	UT		FIN		Weld Completion						100 %						Acceptable											
	Ref. dossier SCANDIUZZI - 1723001792 / 93																												
4/90199/1/CWUPG003			**2**		**02-04-2024**		**184**	**AX25**			**PL**		**500,00 mm**		**40,00 mm**		**K**		**0,500 m**		**M**	**C.S.**		**2A**	**FCAW**			**BW**	**03-04-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0216 04	MM		100 %		000764				Acceptable								03-04-2024			
5/90199/1/CWUPG003			**2**		**02-04-2024**		**184**	**AX25**			**PL**		**920,00 mm**		**20,00 mm**		**K**		**0,920 m**		**M**	**C.S.**		**2A**	**FCAW**			**BW**	**03-04-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0215 03	MM		100 %		000762				Acceptable								03-04-2024			
6/90199/1/CWUPG003			**2**		**02-04-2024**		**184**	**AX25**			**PL**		**500,00 mm**		**40,00 mm**		**K**		**0,500 m**		**M**	**C.S.**		**2A**	**FCAW**			**BW**	**03-04-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0216 04	MM		100 %		000763				Acceptable								03-04-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Examination phase	Prod. Date	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90199/1/CWUPG015		**2**		**22-03-2024**	**168-283**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
						AX90	**After Cutting**												
	I		UT FIN		Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000789		Acceptable					08-04-2024		
			UT C1 DTA		After Cutting		IDL-QCI-UT 0215 03	RS	100 %	001228		Acceptable					13-05-2024		
5/90199/1/CWUPG015		**2**		**22-03-2024**	**168-283**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
						AX90	**After Cutting**												
	I		UT FIN		Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000790		Acceptable					08-04-2024		
			UT C1 DTA		After Cutting		IDL-QCI-UT 0215 03	MM	100 %	001226		Acceptable					13-05-2024		
1/90199/1/CWUPG016		**2**		**21-03-2024**	**162**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I		UT FIN		Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000685		Acceptable					26-03-2024		
5/90199/1/CWUPG016		**2**		**21-03-2024**	**162**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I		UT FIN		Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000686		Acceptable					26-03-2024		
6/90199/1/CWUPG016		**2**		**22-03-2024**	**165-283**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
						AX90	**After Cutting**												
	I		UT FIN		Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000683		Acceptable					26-03-2024		
			UT C1 DTA		After Cutting		IDL-QCI-UT 0215 03	RS	100 %	001229		Acceptable					13-05-2024		
10/90199/1/CWUPG016		**2**		**22-03-2024**	**165-283**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
						AX90	**After Cutting**												
	I		UT FIN		Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000684		Acceptable					26-03-2024		
			UT C1 DTA		After Cutting		IDL-QCI-UT 0215 03	MM	100 %	001227		Acceptable					13-05-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90199/1/CWUPG019			**2**	**04-03-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																		
2/90199/1/CWUPG019			**2**	**04-03-2024**					**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																		
3/90199/1/CWUPG019			**2**	**04-03-2024**					**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																		
4/90199/1/CWUPG019			**2**	**06-03-2024**	**155**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion			IDL-QCI-UT 0215 03	MM	100 %	000700		Acceptable					27-03-2024		
5/90199/1/CWUPG019			**2**	**06-03-2024**	**155**	**AX426**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion			IDL-QCI-UT 0215 03	MM	100 %	000701		Acceptable					27-03-2024		
6/90199/1/CWUPG019			**2**	**06-03-2024**	**155**	**AX426**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion			IDL-QCI-UT 0215 03	MM	100 %	000702		Acceptable					27-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90199/1/CWUPG032		**2**	**22-03-2024**	**168**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000677		Acceptable					26-03-2024		
5/90199/1/CWUPG032		**2**	**22-03-2024**	**168**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000688		Acceptable					26-03-2024		
6/90199/1/CWUPG032		**2**	**22-03-2024**	**168**	**AX90**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000689		Acceptable					26-03-2024		
10/90199/1/CWUPG032		**2**	**22-03-2024**	**168-196**	**AX90**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-04-2024**
					AX393	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000680		Repair				0,320 m	26-03-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	000815		Acceptable					10-04-2024		
1/90199/1/CWUPG033		**2**	**05-04-2024**	**189**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000831		Acceptable					11-04-2024		
5/90199/1/CWUPG033		**2**	**05-04-2024**	**189**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000832		Acceptable					11-04-2024		
6/90199/1/CWUPG033		**2**	**08-04-2024**	**194**	**AX73**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000930		Acceptable					17-04-2024		
10/90199/1/CWUPG033		**2**	**08-04-2024**	**194**	**AX73**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000931		Acceptable					17-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90199/1/CWUPG038		**2**	**04-04-2024**	**188**	**AX394**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000798		Acceptable					09-04-2024		
5/90199/1/CWUPG038		**2**	**04-04-2024**	**188**	**AX394**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000799		Acceptable					09-04-2024		
6/90199/1/CWUPG038		**2**	**06-04-2024**	**191**	**AX394**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000925		Acceptable					17-04-2024		
10/90199/1/CWUPG038		**2**	**06-04-2024**	**191**	**AX394**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000926		Acceptable					17-04-2024		
1/90199/1/CWUPG039		**2**	**05-04-2024**	**190**	**AX73**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000821		Acceptable					11-04-2024		
5/90199/1/CWUPG039		**2**	**05-04-2024**	**190**	**AX73**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000822		Acceptable					11-04-2024		
6/90199/1/CWUPG039		**2**	**05-04-2024**	**190**	**AX25**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000823		Acceptable					11-04-2024		
10/90199/1/CWUPG039		**2**	**05-04-2024**	**190**	**AX25**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000824		Acceptable					11-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90199/1/CWUPG040		**2**	**22-03-2024**	**168-196**	**AX90**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-04-2024**
					AX393 Repair done												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000681		Repair				0,065 m	26-03-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0216 04	MM	100 %	000816		Acceptable					10-04-2024		
5/90199/1/CWUPG040		**2**	**22-03-2024**	**168**	**AX90**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	000682		Acceptable					26-03-2024		
6/90199/1/CWUPG040		**2**	**21-03-2024**	**162**	**AX90**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	000721		Acceptable					28-03-2024		
10/90199/1/CWUPG040		**2**	**21-03-2024**	**162**	**AX90**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	000722		Acceptable					28-03-2024		
1/90199/1/CWUPG041		**2**	**21-03-2024**	**162**	**AX426**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	000723		Acceptable					28-03-2024		
5/90199/1/CWUPG041		**2**	**21-03-2024**	**162**	**AX426**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	000724		Acceptable					28-03-2024		
6/90199/1/CWUPG041		**2**	**22-03-2024**	**168-198**	**AX426**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-04-2024**
					AX84 Repair done												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	000726		Repair				0,030 m	28-03-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0216 04	MM	100 %	000820		Acceptable					10-04-2024		
10/90199/1/CWUPG041		**2**	**22-03-2024**	**168**	**AX426**		**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	000727		Acceptable					28-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90199/1/CWUPG046		**2**	**08-04-2024**	**192**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000839		Acceptable					11-04-2024		
5/90199/1/CWUPG046		**2**	**08-04-2024**	**192**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000840		Acceptable					11-04-2024		
6/90199/1/CWUPG046		**2**	**05-04-2024**	**189**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000825		Acceptable					11-04-2024		
10/90199/1/CWUPG046		**2**	**05-04-2024**	**189**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000826		Acceptable					11-04-2024		
1/90199/1/CWUPG047		**2**	**22-03-2024**	**168**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000730		Acceptable					28-03-2024		
5/90199/1/CWUPG047		**2**	**22-03-2024**	**168**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000731		Acceptable					28-03-2024		
6/90199/1/CWUPG047		**2**	**22-03-2024**	**168-196**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-04-2024**
					AX84	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000678		Repair				0,150 m	26-03-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	000817		Acceptable					10-04-2024		
10/90199/1/CWUPG047		**2**	**22-03-2024**	**168**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000679		Acceptable					26-03-2024		

Totals per DWG	**90199**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**31,98 m**	**58 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**31,98 m**	**58 Nr. Welds**
		Accepted	**31,98 m**	**58 Nr. Welds**
		Repaired	**0,56 m**	**4 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90200/1/CWUPG009		**0**	**06-04-2024**	**191-266**	**AX425**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2024**
					AX90 **Repair done**												
	I		UT FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000837		Acceptable				11-04-2024			
			UT R1 DRI	After Repair	IDL-QCI-UT 0215 03	MM	100 %	001162		Acceptable				06-05-2024			
2/90200/1/CWUPG009		**0**	**06-04-2024**	**191**	**AX425**		**PL**	**958,50 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000842		Acceptable				11-04-2024			
3/90200/1/CWUPG009		**0**	**06-04-2024**	**191**	**AX425**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000838		Acceptable				11-04-2024			
4/90200/1/CWUPG009		**0**	**04-04-2024**	**188**	**AX90**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000814		Acceptable				09-04-2024			
5/90200/1/CWUPG009		**0**	**04-04-2024**	**188-266**	**AX90** **Welding + Repair done**		**PL**	**958,50 mm**	**15,00 mm**	**K**	**0,960 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000807		Acceptable				09-04-2024			
			UT R1 DRI	After Repair	IDL-QCI-UT 0215 03	MM	100 %	001163		Acceptable				06-05-2024			
6/90200/1/CWUPG009		**0**	**04-04-2024**	**188**	**AX90**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000813		Acceptable				09-04-2024			
1/90200/1/CWUPG010		**0**	**20-03-2024**	**160**	**AX426**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-03-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000663		Acceptable				21-03-2024			
2/90200/1/CWUPG010		**0**	**20-03-2024**	**160**	**AX426**		**PL**	**958,50 mm**	**15,00 mm**	**K**	**0,960 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-03-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000664		Acceptable				21-03-2024			
3/90200/1/CWUPG010		**0**	**20-03-2024**	**160**	**AX426**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-03-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000662		Acceptable				21-03-2024			
4/90200/1/CWUPG010		**0**	**20-03-2024**	**163**	**AX394**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000675		Acceptable				25-03-2024			
5/90200/1/CWUPG010		**0**	**20-03-2024**	**163**	**AX394**		**PL**	**958,50 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2024**
	I		UT FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000676		Acceptable				25-03-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
5/90200/1/CWUPG010		**0**	**20-03-2024**	**163**	**AX394**		**PL**	**958,50 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2024**
6/90200/1/CWUPG010		**0**	**20-03-2024**	**163**	**AX394**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000674		Acceptable				25-03-2024		
1/90200/1/CWUPG018		**0**	**26-03-2024**	**173**	**AX25**		**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000745		Acceptable				02-04-2024		
2/90200/1/CWUPG018		**0**	**26-03-2024**	**173**	**AX25**		**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000746		Acceptable				02-04-2024		
3/90200/1/CWUPG018		**0**	**26-03-2024**	**173**	**AX25**		**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000747		Acceptable				02-04-2024		
4/90200/1/CWUPG018		**0**	**27-03-2024**	**182**	**AX25**		**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000758		Acceptable				03-04-2024		
5/90200/1/CWUPG018		**0**	**27-03-2024**	**182**	**AX25**		**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000759		Acceptable				03-04-2024		
6/90200/1/CWUPG018		**0**	**27-03-2024**	**182**	**AX25**		**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000760		Acceptable				03-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90200/1/CWUPG044		**0**	**08-04-2024**	**194**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000874		Acceptable					15-04-2024		
5/90200/1/CWUPG044		**0**	**08-04-2024**	**194**	**AX426**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000880		Acceptable					15-04-2024		
6/90200/1/CWUPG044		**0**	**04-04-2024**	**188**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000829		Acceptable					11-04-2024		
7/90200/1/CWUPG044		**0**	**04-04-2024**	**188**	**AX425**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000841		Acceptable					11-04-2024		
8/90200/1/CWUPG044		**0**	**04-04-2024**	**188**	**AX425**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000830		Acceptable					11-04-2024		
1/90200/1/CWUPG045		**0**	**21-03-2024**	**162**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000671		Acceptable					25-03-2024		
2/90200/1/CWUPG045		**0**	**21-03-2024**	**162**	**AX394**			**PL**	**950,00 mm**	**15,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000673		Acceptable					25-03-2024		
3/90200/1/CWUPG045		**0**	**21-03-2024**	**162**	**AX394**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000672		Acceptable					25-03-2024		
4/90200/1/CWUPG045		**0**	**18-06-2024**	**353**	**AX393**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001562		Acceptable					21-06-2024		
8/90200/1/CWUPG045		**0**	**18-06-2024**	**353**	**AX393**			**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001563		Acceptable					21-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
8/90200/1/CWUPG045	**0**	**18-06-2024**	**353**	**AX393**		**PL**	**400,00 mm**	**25,00 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-06-2024**

Totals per DWG	**90200**	**Prefabrication**	**0,00 m** **0 Nr. Welds**
		Erection	**15,10 m** **28 Nr. Welds**
		Offshore	**0,00 m** **0 Nr. Welds**
		Performed	**15,10 m** **28 Nr. Welds**
		Accepted	**15,10 m** **28 Nr. Welds**
		Repaired	**0,00 m** **0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90201/1/CWULT003		**1**	**26-09-2024**	**428**	**AX394 AX84**			**PIPE**	**800,00 mm**	**30,00 mm**	**V**	**2,504 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**27-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	002373		Acceptable					27-09-2024		
1/90201/1/CWULT004		**1**	**30-09-2024**	**433**	**AX394 AX84**			**PIPE**	**800,00 mm**	**30,00 mm**	**V**	**2,504 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	MM	100 %	002375		Acceptable					01-10-2024		
1/90201/1/CWUPG002		**1**	**20-03-2024**	**160**	**AX90**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000795		Acceptable					08-04-2024		
2/90201/1/CWUPG002		**1**	**20-03-2024**	**160**	**AX90**			**PL**	**920,00 mm**	**20,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000788		Acceptable					08-04-2024		
3/90201/1/CWUPG002		**1**	**20-03-2024**	**160**	**AX90**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000796		Acceptable					08-04-2024		
4/90201/1/CWUPG002		**1**	**19-06-2024**	**354**	**AX393**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BLU	100 %	001588		Acceptable					26-06-2024		
5/90201/1/CWUPG002		**1**	**19-06-2024**	**354**	**AX393**			**PL**	**920,00 mm**	**20,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	100 %	001587		Acceptable					26-06-2024		
6/90201/1/CWUPG002		**1**	**19-06-2024**	**354**	**AX393**			**PL**	**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BLU	100 %	001589		Acceptable					26-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS	Techn. Weld. / Defect length	Type Conn / CND date	Accept. Date / NOTE
1/90201/1/CWUPG004			**1**	**04-03-2024**					**PL**		**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT		FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																			
2/90201/1/CWUPG004			**1**	**04-03-2024**					**PL**		**920,00 mm**	**20,00 mm**	**K**	**0,920 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT		FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																			
3/90201/1/CWUPG004			**1**	**04-03-2024**					**PL**		**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**			**BW**	**04-03-2024**
	I	UT		FIN	Weld Completion					100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723001792 / 93																			
4/90201/1/CWUPG004			**1**	**03-04-2024**	**185**	**AX73**			**PL**		**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	I	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	MM		100 %	000805		Acceptable					09-04-2024		
5/90201/1/CWUPG004			**1**	**03-04-2024**	**185**	**AX73**			**PL**		**920,00 mm**	**20,00 mm**	**K**	**0,920 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	I	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000806		Acceptable					09-04-2024		
6/90201/1/CWUPG004			**1**	**03-04-2024**	**185**	**AX73**			**PL**		**500,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	MM		100 %	000797		Acceptable					08-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90201/1/CWUPG013		**1**	**27-03-2024**	**195**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000833		Acceptable					11-04-2024		
5/90201/1/CWUPG013		**1**	**27-03-2024**	**195**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000834		Acceptable					11-04-2024		
6/90201/1/CWUPG013		**1**	**21-03-2024**	**166**	**AX238**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000698		Acceptable					27-03-2024		
10/90201/1/CWUPG013		**1**	**21-03-2024**	**166**	**AX238**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000699		Acceptable					27-03-2024		
1/90201/1/CWUPG020		**1**	**26-03-2024**	**173**	**AX425**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000743		Acceptable					02-04-2024		
2/90201/1/CWUPG020		**1**	**26-03-2024**	**173**	**AX425**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000744		Acceptable					02-04-2024		
3/90201/1/CWUPG020		**1**	**26-03-2024**	**173**	**AX425**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000742		Acceptable					02-04-2024		
4/90201/1/CWUPG020		**1**	**27-03-2024**	**187**	**AX425**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000774		Acceptable					05-04-2024		
5/90201/1/CWUPG020		**1**	**27-03-2024**	**187**	**AX425**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 00	MM	100 %	000775		Acceptable					05-04-2024		
6/90201/1/CWUPG020		**1**	**27-03-2024**	**187**	**AX425**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000776		Acceptable					05-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90201/1/CWUPG021		**1**	**04-03-2024**				**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**04-03-2024**
I		UT	FIN	Weld Completion			100 %				Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																		
2/90201/1/CWUPG021		**1**	**04-03-2024**				**PL**		**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**			**BW**	**04-03-2024**
I		UT	FIN	Weld Completion			100 %				Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																		
3/90201/1/CWUPG021		**1**	**04-03-2024**				**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**			**BW**	**04-03-2024**
I		UT	FIN	Weld Completion			100 %				Acceptable							
Ref. dossier SCANDIUZZI - 1723001792 / 93																		
4/90201/1/CWUPG021		**1**	**06-03-2024**	**155**	**AX90**		**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-03-2024**
I		UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	100 %	000649			Acceptable					20-03-2024		
5/90201/1/CWUPG021		**1**	**06-03-2024**	**155**	**AX90**		**PL**		**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-03-2024**
I		UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	100 %	000652			Acceptable					20-03-2024		
6/90201/1/CWUPG021		**1**	**06-03-2024**	**155**	**AX90**		**PL**		**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-03-2024**
I		UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	100 %	000653			Acceptable					20-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90201/1/CWUPG022		**1**	**25-03-2024**	**169**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000785		Acceptable					08-04-2024		
2/90201/1/CWUPG022		**1**	**25-03-2024**	**169**	**AX84**			**PL**	**950,00 mm**	**20,00 mm**	**K**	**0,950 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000786		Acceptable					08-04-2024		
3/90201/1/CWUPG022		**1**	**25-03-2024**	**169**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000787		Acceptable					08-04-2024		
1/90201/1/CWUPG029		**1**	**06-04-2024**	**191**	**AX426**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000927		Acceptable					17-04-2024		
5/90201/1/CWUPG029		**1**	**06-04-2024**	**191**	**AX426**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000928		Acceptable					17-04-2024		
6/90201/1/CWUPG029		**1**	**09-04-2024**	**193-245**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**24-04-2024**
					AX25	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000901		Repair				0,190 m	15-04-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0216 04	MM	100 %	001116		Acceptable					24-04-2024		
10/90201/1/CWUPG029		**1**	**09-04-2024**	**193-245**	**AX425**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**24-04-2024**
					AX25	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000902		Repair				0,120 m	15-04-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0216 04	MM	100 %	001117		Acceptable					24-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90201/1/CWUPG030	**1**	**22-03-2024**	**165**	**AX238**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000704		Acceptable				27-03-2024		
5/90201/1/CWUPG030	**1**	**22-03-2024**	**165**	**AX238**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000725		Acceptable				28-03-2024		
6/90201/1/CWUPG030	**1**	**17-06-2024**	**352**	**AX411**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	001565		Acceptable				21-06-2024		
10/90201/1/CWUPG030	**1**	**17-06-2024**	**352**	**AX411**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	001566		Acceptable				21-06-2024		

w10 has been wrongly recorded to be repaired while it was acceptable_Actually the rep.142 shows such mistake_the line in the wr can't be deleted so notes has been recorded to highlight and trace the mistake.

Totals per DWG	**90201**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**24,83 m**	**41 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**24,83 m**	**41 Nr. Welds**
		Accepted	**24,83 m**	**41 Nr. Welds**
		Repaired	**0,31 m**	**2 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90202/1/CWUPG011		**0**	**08-04-2024**	**194**	**AX425**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000881		Acceptable					15-04-2024		
5/90202/1/CWUPG011		**0**	**08-04-2024**	**194**	**AX425**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000882		Acceptable					15-04-2024		
6/90202/1/CWUPG011		**0**	**05-04-2024**	**190-229**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-05-2024**
					AX414	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000873		Repair				0,030 m	15-04-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	001118		Acceptable					24-04-2024		
10/90202/1/CWUPG011		**0**	**05-04-2024**	**190**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000879		Acceptable					15-04-2024		
1/90202/1/CWUPG012		**0**	**08-04-2024**	**194**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000883		Acceptable					15-04-2024		
5/90202/1/CWUPG012		**0**	**08-04-2024**	**194**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000884		Acceptable					15-04-2024		
6/90202/1/CWUPG012		**0**	**05-04-2024**	**189**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000827		Acceptable					11-04-2024		
10/90202/1/CWUPG012		**0**	**05-04-2024**	**189-233**	**AX90**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-04-2024**
					AX25	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000828		Acceptable					11-04-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	001120		Acceptable					27-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90202/1/CWUPG014		**0**	**20-03-2024**	**160**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000687		Acceptable					26-03-2024		
5/90202/1/CWUPG014		**0**	**20-03-2024**	**160**	**AX84**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000690		Acceptable					26-03-2024		
6/90202/1/CWUPG014		**0**	**22-03-2024**	**171**	**AX73**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000696		Acceptable					27-03-2024		
10/90202/1/CWUPG014		**0**	**22-03-2024**	**171**	**AX73**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000697		Acceptable					27-03-2024		
1/90202/1/CWUPG028		**0**	**08-04-2024**	**192**	**AX25**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	001060		Acceptable					23-04-2024		
5/90202/1/CWUPG028		**0**	**08-04-2024**	**192**	**AX25**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000900		Acceptable					15-04-2024		
6/90202/1/CWUPG028		**0**	**08-04-2024**	**194-244**	**AX90**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2024**
					AX25	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000929		Repair				0,050 m	17-04-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0216 04	MM	100 %	001165		Acceptable					06-05-2024		
10/90202/1/CWUPG028		**0**	**08-04-2024**	**194**	**AX90**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000899		Acceptable					15-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90202/1/CWUPG031	**0**	**25-03-2024**	**169**	**AX238**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000728		Acceptable				28-03-2024		
5/90202/1/CWUPG031	**0**	**25-03-2024**	**169**	**AX238**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	000732		Acceptable				28-03-2024		
6/90202/1/CWUPG031	**0**	**17-06-2024**	**352**	**AX393**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	001567		Acceptable				21-06-2024		
10/90202/1/CWUPG031	**0**	**17-06-2024**	**352**	**AX393**			**PL**	**400,00 mm**	**40,00 mm**	**K**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	001564		Acceptable				21-06-2024		

Totals per DWG	**90202**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,80 m**	**20 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,80 m**	**20 Nr. Welds**
		Accepted	**6,80 m**	**20 Nr. Welds**
		Repaired	**0,08 m**	**2 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90203/1/CWBR002		**1**	**08-02-2024**					**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**1,727 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I		UT FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
2/90203/1/CWBR002		**1**	**21-08-2024**	**390**	**AX426**			**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**2,271 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**26-08-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	002264		Acceptable					26-08-2024		
1/90203/1/CWBR005		**1**	**26-08-2024**	**397**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**28-08-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002265		Acceptable					28-08-2024		
2/90203/1/CWBR005		**1**	**26-08-2024**	**397**	**AX25**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,194 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**28-08-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002266		Acceptable					28-08-2024		
1/90203/1/CWBR006		**1**	**27-08-2024**	**402**	**AX411**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**30-08-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002272		Acceptable					30-08-2024		
2/90203/1/CWBR006		**1**	**27-08-2024**	**402**	**AX411**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,194 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**30-08-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002273		Acceptable					30-08-2024		
1/90203/1/CWBR009		**1**	**26-08-2024**	**396-418**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,238 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**09-09-2024**
					AX411	**Repair done**												
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002267		Repair				0,180 m	28-08-2024		
			UT R 1 DRI	After Repair		IDL-QCI-UT 0222 02	MM	100 %	002292		Acceptable					09-09-2024		
2/90203/1/CWBR009		**1**	**26-08-2024**	**396**	**AX25**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,048 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**28-08-2024**
	I		UT FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002268		Acceptable					28-08-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90203/1/CWBR010		**1**	**27-08-2024**	**402**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,238 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**30-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002274		Acceptable					30-08-2024		
2/90203/1/CWBR010		**1**	**27-08-2024**	**402**	**AX411**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,048 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**30-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002275		Acceptable					30-08-2024		
1/90203/1/CWBR019		**1**	**21-08-2024**	**385**	**AX63**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002241		Acceptable					22-08-2024		
2/90203/1/CWBR019		**1**	**16-02-2024**	**32**	**AX394**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000292		Acceptable					26-02-2024		
1/90203/1/CWBR020		**1**	**20-08-2024**	**386**	**AX84**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002246		Acceptable					22-08-2024		
2/90203/1/CWBR020		**1**	**21-03-2024**	**164**	**AX73**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**25-03-2024**
					AX393													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000669		Acceptable					25-03-2024		
1/90203/1/CWBR023		**1**	**12-11-2024**	**464**	**AX84**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,617 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**15-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002459		Acceptable					15-11-2024		
2/90203/1/CWBR023		**1**	**04-03-2024**	**85-100**	**AX238**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,518 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**07-03-2024**
					AX393	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000422		Repair				0,210 m	05-03-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0214 02	MM	100 %	000485		Acceptable					07-03-2024		
3/90203/1/CWBR023		**1**	**12-11-2024**	**464**	**AX84**			**PIPE**	**406,40 mm**	**12,70 mm**	**V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	100 %	002460		Acceptable					15-11-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90203/1/CWBR024		**1**	**15-11-2024**	**468**	**AX90**		**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,617 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**19-11-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	002476		Acceptable					19-11-2024		
2/90203/1/CWBR024		**1**	**21-03-2024**	**164**	**AX73** **AX393**		**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,518 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**25-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	100 %	000670		Acceptable					25-03-2024		
3/90203/1/CWBR024		**1**	**15-11-2024**	**468**	**AX84**		**PIPE**	**406,40 mm**	**12,70 mm**	**V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-11-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM	100 %	002477		Acceptable					19-11-2024		
1/90203/1/CWBR028		**1**	**20-08-2024**	**382**	**AX426** **AX410**		**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**2,271 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**26-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BLU	100 %	002263		Acceptable					26-08-2024		
2/90203/1/CWBR028		**1**	**08-02-2024**				**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**1,727 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion			100 %			Acceptable							

Ref. dossier SCANDIUZZI - 1723000223

Totals per DWG	**90203**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**31,76 m**	**22 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**31,76 m**	**22 Nr. Welds**
		Accepted	**31,76 m**	**22 Nr. Welds**
		Repaired	**0,39 m**	**2 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90204/1/CWBR001		**0**	**08-02-2024**					**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**1,727 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
2/90204/1/CWBR001		**0**	**28-08-2024**	**407**	**AX411**			**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**2,275 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**05-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	002290		Acceptable					05-09-2024		
1/90204/1/CWBR003		**0**	**30-08-2024**	**409**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**05-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002286		Acceptable					05-09-2024		
2/90204/1/CWBR003		**0**	**02-09-2024**	**408**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,194 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**05-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002283		Acceptable					05-09-2024		
1/90204/1/CWBR004		**0**	**09-11-2024**	**463**	**AX238**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**12-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002449		Acceptable					12-11-2024		
2/90204/1/CWBR004		**0**	**09-11-2024**	**463**	**AX394**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,194 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**12-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002450		Acceptable					12-11-2024		
1/90204/1/CWBR007		**0**	**02-09-2024**	**408**	**AX411**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,238 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**05-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002284		Acceptable					05-09-2024		
2/90204/1/CWBR007		**0**	**30-08-2024**	**409**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,048 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**05-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002287		Acceptable					05-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90204/1/CWBR008	**0**	**09-11-2024**	**463**	**AX84**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,238 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**12-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002451		Acceptable				12-11-2024		
2/90204/1/CWBR008	**0**	**09-11-2024**	**463**	**AX394**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,048 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**12-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002452		Acceptable				12-11-2024		
1/90204/1/CWBR017	**0**	**21-08-2024**	**389**	**AX25**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**23-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	100 %	002250		Acceptable				23-08-2024		
2/90204/1/CWBR017	**0**	**16-02-2024**	**32**	**AX425**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**26-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000293		Acceptable				26-02-2024		
1/90204/1/CWBR018	**0**	**21-08-2024**	**390**	**AX427**			**PIPE**	**406,40 mm**	**20,60 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**23-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	100 %	002255		Acceptable				23-08-2024		
2/90204/1/CWBR018	**0**	**15-07-2024**	**363**	**AX25** **AX416**			**PIPE**	**406,40 mm**	**20,60 mm**	**1/2V**	**1,477 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**17-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0235 02	BLU	100 %	001801		Acceptable				17-07-2024		
1/90204/1/CWBR021	**0**	**02-09-2024**	**411**	**AX411**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,617 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**05-09-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002288		Acceptable				05-09-2024		
2/90204/1/CWBR021	**0**	**02-09-2024**	**408**	**AX414**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,518 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**05-09-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002285		Acceptable				05-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90204/1/CWBR027		**0**	**08-11-2024**	**462**	**AX84** **AX238**			**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**2,275 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**12-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002453		Acceptable					12-11-2024		
2/90204/1/CWBR027		**0**	**08-02-2024**					**PIPE**	**550,00 mm**	**20,00 mm**	**1/2V**	**1,727 m**	**M**	**C.S.**			**T**	**08-02-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
	Ref. dossier SCANDIUZZI - 1723000223																	
1/90204/1/CWBR029		**0**	**26-08-2024**	**397**	**AX84**			**PIPE**	**406,40 mm**	**20,60 mm**	**1/2V**	**1,574 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	002269		Acceptable					29-08-2024		
2/90204/1/CWBR029		**0**	**10-07-2024**	**361**	**AX411**			**PIPE**	**406,40 mm**	**20,60 mm**	**1/2V**	**1,564 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0235 02	ROM	100 %	001800		Acceptable					17-07-2024		
1/90204/1/CWBR031		**0**	**17-07-2024**	**364**	**AX25**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,552 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001804		Acceptable					18-07-2024		
2/90204/1/CWBR031		**0**	**12-07-2024**	**362**	**AX416**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,579 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0235 02	BLU	100 %	001802		Acceptable					17-07-2024		
1/90204/1/CWBR032		**0**	**23-08-2024**	**392**	**AX411**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,569 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	002505		Acceptable					28-08-2024		
2/90204/1/CWBR032		**0**	**24-08-2024**	**395**	**AX411**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,552 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	50 %	002270		Acceptable					28-08-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90204/1/CWLG019		**0**	**24-08-2024**	**395**	**AX84**		**PIPE**	**550,00 mm**	**30,00 mm**	**1/2V**	**2,198 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BLU	100 %	002271		Acceptable				29-08-2024			
2/90204/1/CWLG019		**0**	**01-07-2024**	**360**	**AX393**		**PIPE**	**550,00 mm**	**30,00 mm**	**1/2V**	**1,701 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
					AX63												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BLU	100 %	001803		Acceptable				17-07-2024			
1/90204/1/CWLG020		**0**	**18-11-2024**	**469**	**AX90**		**PIPE**	**700,00 mm**	**30,00 mm**	**1/2V**	**2,240 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-11-2024**
					AX84												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002483		Acceptable				22-11-2024			
2/90204/1/CWLG020		**0**	**07-11-2024**	**1**	**AX85**		**PIPE**	**700,00 mm**	**20,00 mm**	**V**	**2,198 m**	**M**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**11-11-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	RS	100 %	002445		Acceptable				08-11-2024			

Totals per DWG 90204

Prefabrication	**0,00 m**	**0 Nr. Welds**
Erection	**43,80 m**	**28 Nr. Welds**
Offshore	**0,00 m**	**0 Nr. Welds**
Performed	**43,80 m**	**28 Nr. Welds**
Accepted	**43,80 m**	**28 Nr. Welds**
Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
3/90205/1/CWLSB120		**0**	**01-03-2024**	**12**	**AX425**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000434		Acceptable					06-03-2024		
3/90205/1/CWLSB121		**0**	**01-03-2024**	**12**	**AX393**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000418		Acceptable					04-03-2024		
3/90205/1/CWLSB122		**0**	**27-02-2024**	**11**	**AX238**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000465		Acceptable					06-03-2024		
3/90205/1/CWLSB123		**0**	**27-02-2024**	**11**	**AX25**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000466		Acceptable					06-03-2024		

Totals per DWG	**90205**	**Prefabrication**	**0,64 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,64 m**	**4 Nr. Welds**
		Accepted	**0,64 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90209/1/CWUSB077		**1**	**12-04-2024**	**26**	**GX37**		**PL**		**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	001015		Acceptable				19-04-2024		
6/90209/1/CWUSB077		**1**	**12-04-2024**	**26**	**GX37**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	RS	50 %	001014		Acceptable				19-04-2024		
7/90209/1/CWUSB077		**1**	**12-04-2024**	**26**	**GX37**		**HEA**		**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-04-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
8/90209/1/CWUSB077		**1**	**12-04-2024**	**26**	**GX37**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-04-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90209**	**Prefabrication**	**1,14 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,14 m**	**4 Nr. Welds**
		Accepted	**1,14 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90210/1/CWUSB078	**1**	**18-04-2024**	**55**	**AX414**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001024		Acceptable				20-04-2024		
6/90210/1/CWUSB078	**1**	**18-04-2024**	**55**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001025		Acceptable				20-04-2024		
7/90210/1/CWUSB078	**1**	**18-04-2024**	**55**	**AX414**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
8/90210/1/CWUSB078	**1**	**18-04-2024**	**55**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001026		Acceptable				20-04-2024		
3/90210/1/CWUSB079	**1**	**18-04-2024**	**55**	**AX238**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001027		Acceptable				20-04-2024		
6/90210/1/CWUSB079	**1**	**18-04-2024**	**55**	**AX238**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001028		Acceptable				20-04-2024		
7/90210/1/CWUSB079	**1**	**18-04-2024**	**55**	**AX238**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001029		Acceptable				20-04-2024		
8/90210/1/CWUSB079	**1**	**18-04-2024**	**55**	**AX238**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001030		Acceptable				20-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90210/1/CWUSB080	**1**	**19-04-2024**	**56**	**AX414**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001115		Acceptable				23-04-2024		

Totals per DWG	**90210**	**Prefabrication**	**2,44 m**	**9 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,44 m**	**9 Nr. Welds**
		Accepted	**2,44 m**	**9 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90211/1/CWUSB081	**2**	**28-05-2024**	**111**	**AX414**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90211/1/CWUSB082	**2**	**16-04-2024**	**59**	**AX90**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-04-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90211**	**Prefabrication**	**0,32 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,32 m**	**2 Nr. Welds**
		Accepted	**0,32 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
3/90219/1/CWUSB148	III	**3** / UT	**16-04-2024** / FIN	**27** Weld Completion	**GX14**		**PL** 50 %	**300,00 mm**	**15,00 mm**	**1/2V** Acceptable	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-04-2024**
6/90219/1/CWUSB148	III	**3** / UT	**16-04-2024** / FIN	**27** Weld Completion	**GX14**		**HEA** 50 %	**340,00 mm**	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-04-2024**
7/90219/1/CWUSB148	III	**3** / UT	**16-04-2024** / FIN	**27** Weld Completion	**GX14** IDL-QCI-UT 0222 02	RS	**HEA** 50 %	**340,00 mm** 001017	**9,50 mm**	**1/2V** Acceptable	**0,243 m**	**P**	**C.S.**	**2A** 19-04-2024	**FCAW**	**T**	**19-04-2024**
8/90219/1/CWUSB148	III	**3** / UT	**16-04-2024** / FIN	**27** Weld Completion	**GX14** IDL-QCI-UT 0223 02	RS	**HEA** 50 %	**340,00 mm** 001016	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**P**	**C.S.**	**2A** 19-04-2024	**FCAW**	**T**	**19-04-2024**

Totals per DWG	**90219**	**Prefabrication**	**1,14 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,14 m**	**4 Nr. Welds**
		Accepted	**1,14 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB001	**0**	**27-02-2024**	**68**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000360		Acceptable				01-03-2024		
3/90233/1/CWLSB001	**0**	**27-02-2024**	**68**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90233/1/CWLSB001	**0**	**27-02-2024**	**68**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000361		Acceptable				01-03-2024		
1/90233/1/CWLSB016	**0**	**20-02-2024**	**59**	**AX431**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000352		Acceptable				01-03-2024		
1/90233/1/CWLSB017	**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000353		Acceptable				01-03-2024		
6/90233/1/CWLSB017	**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000354		Acceptable				01-03-2024		
1/90233/1/CWLSB018	**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000355		Acceptable				01-03-2024		
3/90233/1/CWLSB018	**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90233/1/CWLSB018	**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000356		Acceptable				01-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90233/1/CWLSB021		**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000357		Acceptable					01-03-2024		
6/90233/1/CWLSB021		**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000358		Acceptable					01-03-2024		
8/90233/1/CWLSB021		**0**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000359		Acceptable					01-03-2024		
1/90233/1/CWLSB022		**0**	**22-02-2024**	**65**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000362		Acceptable					01-03-2024		
1/90233/1/CWLSB023		**0**	**14-02-2024**	**64**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000372		Acceptable					01-03-2024		
6/90233/1/CWLSB023		**0**	**23-02-2024**	**66**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000370		Acceptable					01-03-2024		
1/90233/1/CWLSB042		**0**	**22-02-2024**	**65**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000363		Acceptable					01-03-2024		
3/90233/1/CWLSB042		**0**	**22-02-2024**	**65**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90233/1/CWLSB042		**0**	**22-02-2024**	**65**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000364		Acceptable					01-03-2024		
9/90233/1/CWLSB042		**0**	**29-02-2024**	**79**	**AX90**			**PL**	**300,00 mm**	**20,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000556		Acceptable					12-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB043	**0**	**26-02-2024**	**67**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000367		Acceptable				01-03-2024		
6/90233/1/CWLSB043	**0**	**26-02-2024**	**67**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000368		Acceptable				01-03-2024		
8/90233/1/CWLSB043	**0**	**26-02-2024**	**67**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90233/1/CWLSB044	**0**	**27-02-2024**	**69**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000351		Acceptable				01-03-2024		
2/90233/1/CWLSB044	**0**	**27-02-2024**	**69**	**AX25**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000475		Acceptable				07-03-2024		
3/90233/1/CWLSB044	**0**	**27-02-2024**	**69**	**AX25**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000349		Acceptable				01-03-2024		
4/90233/1/CWLSB044	**0**	**27-02-2024**	**69**	**AX25**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000350		Acceptable				01-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB045	**0**	**23-02-2024**	**61**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000564		Acceptable				12-03-2024		
2/90233/1/CWLSB045	**0**	**23-02-2024**	**61**	**AX90**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000569		Acceptable				12-03-2024		
3/90233/1/CWLSB045	**0**	**29-02-2024**	**79**	**AX84**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000557		Acceptable				12-03-2024		
4/90233/1/CWLSB045	**0**	**29-02-2024**	**79**	**AX84**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000558		Acceptable				12-03-2024		
1/90233/1/CWLSB046	**0**	**24-02-2024**	**62**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000337		Acceptable				28-02-2024		
2/90233/1/CWLSB046	**0**	**24-02-2024**	**62**	**AX25**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000474		Acceptable				07-03-2024		
3/90233/1/CWLSB046	**0**	**24-02-2024**	**62**	**AX25**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000333		Acceptable				28-02-2024		
4/90233/1/CWLSB046	**0**	**24-02-2024**	**62**	**AX25**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000323		Acceptable				28-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90233/1/CWLSB047		**0**	**23-02-2024**	**61**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000334		Acceptable					28-02-2024		
2/90233/1/CWLSB047		**0**	**23-02-2024**	**61**	**AX90**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000570		Acceptable					12-03-2024		
3/90233/1/CWLSB047		**0**	**23-02-2024**	**61**	**AX90**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000335		Acceptable					28-02-2024		
4/90233/1/CWLSB047		**0**	**23-02-2024**	**61**	**AX90**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000330		Acceptable					28-02-2024		
1/90233/1/CWLSB048		**0**	**22-02-2024**	**57**	**AX429**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000308		Acceptable					27-02-2024		
2/90233/1/CWLSB048		**0**	**22-02-2024**	**57**	**AX429**			**HEA**	**340,00 mm**	**7,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000472		Acceptable					07-03-2024		
3/90233/1/CWLSB048		**0**	**22-02-2024**	**57**	**AX429**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000315		Acceptable					27-02-2024		
4/90233/1/CWLSB048		**0**	**22-02-2024**	**57**	**AX429**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000316		Acceptable					27-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB049	**0**	**23-02-2024**	**56**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000340		Acceptable				29-02-2024		
7/90233/1/CWLSB049	**0**	**23-02-2024**	**56**	**AX394**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000326		Acceptable				28-02-2024		
1/90233/1/CWLSB050	**0**	**04-03-2024**	**91**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000561		Acceptable				12-03-2024		
7/90233/1/CWLSB050	**0**	**04-03-2024**	**91**	**AX427**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000568		Acceptable				12-03-2024		
1/90233/1/CWLSB051	**0**	**04-03-2024**	**91**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000533		Acceptable				13-03-2024		
7/90233/1/CWLSB051	**0**	**04-03-2024**	**91**	**AX427**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000532		Acceptable				13-03-2024		
1/90233/1/CWLSB053	**0**	**27-02-2024**	**68**	**AX409**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000383		Acceptable				02-03-2024		
6/90233/1/CWLSB053	**0**	**25-03-2024**	**175**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000733		Acceptable				28-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90233/1/CWLSB054	**0**	**22-02-2024**	**54**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000307		Acceptable					28-02-2024		
2/90233/1/CWLSB054	**0**	**22-02-2024**	**54**	**AX426**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000467		Acceptable					07-03-2024		
3/90233/1/CWLSB054	**0**	**22-02-2024**	**54**	**AX426**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000310		Acceptable					28-02-2024		
4/90233/1/CWLSB054	**0**	**22-02-2024**	**54**	**AX426**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000311		Acceptable					28-02-2024		
1/90233/1/CWLSB056	**0**	**22-02-2024**	**65**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000381		Acceptable					02-03-2024		
3/90233/1/CWLSB056	**0**	**29-02-2024**	**79**	**AX426**			**PL**	**322,00 mm**	**10,00 mm**	**K**	**0,650 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000382		Acceptable					02-03-2024		
4/90233/1/CWLSB056	**0**	**29-02-2024**	**79**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000712		Acceptable					02-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90233/1/CWLSB057		**0**	**22-02-2024**	**54**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000295		Acceptable					27-02-2024		
3/90233/1/CWLSB057		**0**	**22-02-2024**	**54**	**AX73**			**PL**	**322,00 mm**	**10,00 mm**	**1/2V**	**0,650 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000296		Acceptable					27-02-2024		
4/90233/1/CWLSB057		**0**	**22-02-2024**	**54**	**AX73**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000297		Acceptable					27-02-2024		
1/90233/1/CWLSB058		**0**	**22-02-2024**	**65**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000386		Acceptable					02-03-2024		
6/90233/1/CWLSB058		**0**	**22-02-2024**	**124**	**AX73**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000633		Acceptable					18-03-2024		
1/90233/1/CWLSB059		**0**	**22-02-2024**	**54**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000298		Acceptable					27-02-2024		
6/90233/1/CWLSB059		**0**	**22-02-2024**	**54**	**AX394**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000299		Acceptable					27-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB060	**0**	**22-02-2024**	**54**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000300		Acceptable				27-02-2024		
6/90233/1/CWLSB060	**0**	**24-02-2024**	**62**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000324		Acceptable				28-02-2024		
1/90233/1/CWLSB061	**0**	**23-02-2024**	**56**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000327		Acceptable				28-02-2024		
3/90233/1/CWLSB061	**0**	**23-02-2024**	**56**	**AX394**			**PL**	**317,00 mm**	**10,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000331		Acceptable				28-02-2024		
4/90233/1/CWLSB061	**0**	**23-02-2024**	**56**	**AX394**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000332		Acceptable				28-02-2024		
1/90233/1/CWLSB062	**0**	**01-03-2024**	**92**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000539		Acceptable				13-03-2024		
7/90233/1/CWLSB062	**0**	**01-03-2024**	**92**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000540		Acceptable				13-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90233/1/CWLSB063		**0**	**01-03-2024**	**92**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000541		Acceptable					13-03-2024		
6/90233/1/CWLSB063		**0**	**01-03-2024**	**126**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000634		Acceptable					18-03-2024		
1/90233/1/CWLSB064		**0**	**23-02-2024**	**61**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000329		Acceptable					28-02-2024		
6/90233/1/CWLSB064		**0**	**23-02-2024**	**61**	**AX410**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000321		Acceptable					28-02-2024		
1/90233/1/CWLSB065		**0**	**01-03-2024**	**92**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000542		Acceptable					13-03-2024		
6/90233/1/CWLSB065		**0**	**25-03-2024**	**175**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000734		Acceptable					28-03-2024		
1/90233/1/CWLSB066		**0**	**01-03-2024**	**92**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000543		Acceptable					13-03-2024		
6/90233/1/CWLSB066		**0**	**25-03-2024**	**175**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000735		Acceptable					28-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB067	**0**	**01-03-2024**	**92**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000544		Acceptable				13-03-2024		
7/90233/1/CWLSB067	**0**	**01-03-2024**	**92**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000547		Acceptable				13-03-2024		
1/90233/1/CWLSB068	**0**	**01-03-2024**	**92**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000545		Acceptable				13-03-2024		
7/90233/1/CWLSB068	**0**	**01-03-2024**	**92**	**AX426**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000546		Acceptable				13-03-2024		
1/90233/1/CWLSB069	**0**	**21-02-2024**	**47**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000260		Acceptable				26-02-2024		
7/90233/1/CWLSB069	**0**	**21-02-2024**	**47**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000261		Acceptable				26-02-2024		
1/90233/1/CWLSB070	**0**	**20-02-2024**	**59**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000384		Acceptable				02-03-2024		
7/90233/1/CWLSB070	**0**	**20-02-2024**	**59**	**AX410**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000385		Acceptable				02-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB071		**0**	**20-02-2024**	**59**	**AX410**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000710		Acceptable				06-03-2024		
6/90233/1/CWLSB071		**0**	**20-02-2024**	**59**	**AX410**		**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000457		Acceptable				06-03-2024		
1/90233/1/CWLSB072		**0**	**23-02-2024**	**56**	**AX410**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000336		Acceptable				28-02-2024		
7/90233/1/CWLSB072		**0**	**23-02-2024**	**56**	**AX410**		**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**28-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000328		Acceptable				28-02-2024		
1/90233/1/CWLSB073		**0**	**23-02-2024**	**61**	**AX410**		**IPE**	**330,00 mm**	**9,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000322		Acceptable				28-02-2024		
1/90233/1/CWLSB074		**0**	**21-02-2024**	**47**	**AX426**		**IPE**	**330,00 mm**	**9,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000262		Acceptable				26-02-2024		
1/90233/1/CWLSB107		**0**	**24-02-2024**	**62**	**AX429**		**IPE**	**330,00 mm**	**9,50 mm**	**1/2V**	**0,011 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000325		Acceptable				28-02-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90233/1/CWLSB108	**0**	**04-03-2024**	**104**	**AX425**			**IPE**	**330,00 mm**	**9,50 mm**	**1/2V**	**0,011 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000621		Acceptable				13-03-2024		
1/90233/1/CWLSB114	**0**	**21-02-2024**	**47**	**AX84**			**IPE**	**330,00 mm**	**9,50 mm**	**1/2V**	**0,011 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000263		Acceptable				26-02-2024		
1/90233/1/CWLSB115	**0**	**28-02-2024**	**74**	**AX426**			**IPE**	**330,00 mm**	**9,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000531		Acceptable				13-03-2024		

Totals per DWG	**90233**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**26,26 m**	**97 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**26,26 m**	**97 Nr. Welds**
		Accepted	**26,26 m**	**97 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90234/1/CWLSB002	**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000150		Acceptable				16-02-2024		
3/90234/1/CWLSB002	**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000151		Acceptable				16-02-2024		
4/90234/1/CWLSB002	**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000152		Acceptable				16-02-2024		
1/90234/1/CWLSB003	**1**	**15-02-2024**	**27**	**AX63**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000213		Acceptable				22-02-2024		
3/90234/1/CWLSB003	**1**	**15-02-2024**	**27**	**AX63**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000214		Acceptable				22-02-2024		
4/90234/1/CWLSB003	**1**	**15-02-2024**	**27**	**AX63**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000215		Acceptable				22-02-2024		
1/90234/1/CWLSB004	**1**	**28-02-2024**	**72**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000448		Acceptable				06-03-2024		
6/90234/1/CWLSB004	**1**	**28-02-2024**	**72**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000449		Acceptable				06-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90234/1/CWLSB005		**1**	**22-02-2024**	**78**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000439		Acceptable					06-03-2024		
6/90234/1/CWLSB005		**1**	**22-02-2024**	**78**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000440		Acceptable					06-03-2024		
1/90234/1/CWLSB006		**1**	**21-02-2024**	**45**	**AX429**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000288		Acceptable					26-02-2024		
6/90234/1/CWLSB006		**1**	**21-02-2024**	**45**	**AX429**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000289		Acceptable					26-02-2024		
1/90234/1/CWLSB007		**1**	**19-02-2024**	**58**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000345		Acceptable					29-02-2024		
5/90234/1/CWLSB007		**1**	**19-02-2024**	**58**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000346		Acceptable					29-02-2024		
1/90234/1/CWLSB008		**1**	**19-02-2024**	**58**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000341		Acceptable					29-02-2024		
5/90234/1/CWLSB008		**1**	**19-02-2024**	**58**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000342		Acceptable					29-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90234/1/CWLSB009	**1**	**19-02-2024**	**58**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **29-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000343		Acceptable				29-02-2024		
5/90234/1/CWLSB009	**1**	**19-02-2024**	**58**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **29-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000344		Acceptable				29-02-2024		
1/90234/1/CWLSB010	**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000458		Acceptable				06-03-2024		
5/90234/1/CWLSB010	**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000459		Acceptable				06-03-2024		
1/90234/1/CWLSB011	**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000460		Acceptable				06-03-2024		
5/90234/1/CWLSB011	**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000461		Acceptable				06-03-2024		
1/90234/1/CWLSB012	**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000153		Acceptable				16-02-2024		
5/90234/1/CWLSB012	**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **16-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000154		Acceptable				16-02-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90234/1/CWLSB014		**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000155		Acceptable					16-02-2024		
5/90234/1/CWLSB014		**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000156		Acceptable					16-02-2024		
1/90234/1/CWLSB015		**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000365		Acceptable					01-03-2024		
5/90234/1/CWLSB015		**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000366		Acceptable					01-03-2024		
1/90234/1/CWLSB019		**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90234/1/CWLSB019		**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000369		Acceptable					01-03-2024		
1/90234/1/CWLSB020		**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90234/1/CWLSB020		**1**	**20-02-2024**	**59**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000371		Acceptable					01-03-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90234/1/CWLSB024		**1**	**15-02-2024**	**27**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000216		Acceptable					22-02-2024		
5/90234/1/CWLSB024		**1**	**15-02-2024**	**27**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000217		Acceptable					22-02-2024		
1/90234/1/CWLSB025		**1**	**22-02-2024**	**78**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000716		Acceptable					06-03-2024		
6/90234/1/CWLSB025		**1**	**22-02-2024**	**78**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000717		Acceptable					06-03-2024		
1/90234/1/CWLSB026		**1**	**21-02-2024**	**45**	**AX429**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000290		Acceptable					26-02-2024		
5/90234/1/CWLSB026		**1**	**21-02-2024**	**45**	**AX429**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000291		Acceptable					26-02-2024		
1/90234/1/CWLSB027		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000373		Acceptable					02-03-2024		
3/90234/1/CWLSB027		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90234/1/CWLSB027		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000374		Acceptable					02-03-2024		
6/90234/1/CWLSB027		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90234/1/CWLSB028		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90234/1/CWLSB028		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000375		Acceptable					02-03-2024		
4/90234/1/CWLSB028		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000376		Acceptable					02-03-2024		
6/90234/1/CWLSB028		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90234/1/CWLSB031		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000421		Acceptable					04-03-2024		
5/90234/1/CWLSB031		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90234/1/CWLSB031		**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90234/1/CWLSB032	**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000456		Acceptable				06-03-2024		
5/90234/1/CWLSB032	**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000454		Acceptable				06-03-2024		
7/90234/1/CWLSB032	**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90234/1/CWLSB033	**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000455		Acceptable				06-03-2024		
6/90234/1/CWLSB033	**1**	**20-02-2024**	**59**	**AX431**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000711		Acceptable				06-03-2024		
1/90234/1/CWLSB034	**1**	**26-02-2024**	**67**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000379		Acceptable				02-03-2024		
6/90234/1/CWLSB034	**1**	**26-02-2024**	**67**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000380		Acceptable				02-03-2024		

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Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90234/1/CWLSB035	**1**	**26-02-2024**	**67**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000377		Acceptable				02-03-2024		
5/90234/1/CWLSB035	**1**	**26-02-2024**	**67**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000378		Acceptable				02-03-2024		
1/90234/1/CWLSB036	**1**	**15-02-2024**	**27**	**AX63**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000218		Acceptable				22-02-2024		
5/90234/1/CWLSB036	**1**	**15-02-2024**	**27**	**AX63**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000219		Acceptable				22-02-2024		
1/90234/1/CWLSB037	**1**	**15-02-2024**	**27**	**AX63**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000220		Acceptable				22-02-2024		
5/90234/1/CWLSB037	**1**	**15-02-2024**	**27**	**AX63**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000221		Acceptable				22-02-2024		
1/90234/1/CWLSB039	**1**	**27-02-2024**	**69**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000450		Acceptable				06-03-2024		
6/90234/1/CWLSB039	**1**	**27-02-2024**	**69**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000451		Acceptable				06-03-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90234/1/CWLSB040		**1**	**06-03-2024**	**102**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000552		Acceptable					12-03-2024		
6/90234/1/CWLSB040		**1**	**06-03-2024**	**102**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000563		Acceptable					12-03-2024		
1/90234/1/CWLSB041		**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000157		Acceptable					16-02-2024		
5/90234/1/CWLSB041		**1**	**13-02-2024**	**21**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000158		Acceptable					16-02-2024		
1/90234/1/CWLSB116		**1**	**28-02-2024**	**106**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000619		Acceptable					13-03-2024		
6/90234/1/CWLSB116		**1**	**28-02-2024**	**106**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000620		Acceptable					13-03-2024		
1/90234/1/CWLSB117		**1**	**28-02-2024**	**77**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000443		Acceptable					06-03-2024		
6/90234/1/CWLSB117		**1**	**28-02-2024**	**77**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000444		Acceptable					06-03-2024		

Totals per DWG	**90234**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**21,60 m**	**72 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**21,60 m**	**72 Nr. Welds**
		Accepted	**21,60 m**	**72 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90235/1/CWLSB052		**1**	**04-03-2024**	**118**	**AX90**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000609		Acceptable				13-03-2024		
3/90235/1/CWLSB052		**1**	**04-03-2024**	**118**	**AX90**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000610		Acceptable				13-03-2024		
1/90235/1/CWLSB055		**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90235/1/CWLSB055		**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90235/1/CWLSB055		**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90235/1/CWLSB055		**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90235/1/CWLSB075		**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90235/1/CWLSB075		**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90235/1/CWLSB075		**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90235/1/CWLSB075		**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.		Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB076	**1**	**21-02-2024**	**53**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
3/90235/1/CWLSB076	**1**	**21-02-2024**	**53**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
4/90235/1/CWLSB076	**1**	**21-02-2024**	**53**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
6/90235/1/CWLSB076	**1**	**21-02-2024**	**53**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
1/90235/1/CWLSB077	**1**	**21-02-2024**	**53**	**AX394**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000317			Acceptable					28-02-2024		
3/90235/1/CWLSB077	**1**	**21-02-2024**	**53**	**AX394**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000318			Acceptable					28-02-2024		
4/90235/1/CWLSB077	**1**	**21-02-2024**	**53**	**AX394**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000319			Acceptable					28-02-2024		
6/90235/1/CWLSB077	**1**	**21-02-2024**	**53**	**AX394**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000476			Acceptable					07-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90235/1/CWLSB078	**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90235/1/CWLSB078	**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90235/1/CWLSB078	**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90235/1/CWLSB078	**1**	**21-02-2024**	**53**	**AX25**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90235/1/CWLSB079	**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90235/1/CWLSB079	**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90235/1/CWLSB079	**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90235/1/CWLSB079	**1**	**21-02-2024**	**53**	**AX84**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Cons	NOTE	Accept. Date
1/90235/1/CWLSB080			**1**		**21-02-2024**		**47**	**AX84**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											
3/90235/1/CWLSB080			**1**		**21-02-2024**		**47**	**AX84**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											
4/90235/1/CWLSB080			**1**		**21-02-2024**		**47**	**AX84**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											
6/90235/1/CWLSB080			**1**		**21-02-2024**		**47**	**AX84**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											
1/90235/1/CWLSB081			**1**		**21-02-2024**		**47**	**AX426**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											
3/90235/1/CWLSB081			**1**		**21-02-2024**		**47**	**AX426**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											
4/90235/1/CWLSB081			**1**		**21-02-2024**		**47**	**AX426**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											
6/90235/1/CWLSB081			**1**		**21-02-2024**		**47**	**AX426**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**24-02-2024**
	III			UT		FIN	Weld Completion					50 %						Acceptable											

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB082	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001401		Acceptable					27-05-2024		
3/90235/1/CWLSB082	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001402		Acceptable					27-05-2024		
4/90235/1/CWLSB082	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001403		Acceptable					27-05-2024		
6/90235/1/CWLSB082	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001404		Acceptable					27-05-2024		
1/90235/1/CWLSB083	**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000537		Acceptable					13-03-2024		
3/90235/1/CWLSB083	**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90235/1/CWLSB083	**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90235/1/CWLSB083	**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000538		Acceptable					13-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90235/1/CWLSB084		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90235/1/CWLSB084		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000534		Acceptable					13-03-2024		
4/90235/1/CWLSB084		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90235/1/CWLSB084		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90235/1/CWLSB085		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000535		Acceptable					13-03-2024		
3/90235/1/CWLSB085		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90235/1/CWLSB085		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90235/1/CWLSB085		**1**	**04-03-2024**	**91**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000536		Acceptable					13-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90235/1/CWLSB086	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001405		Acceptable				27-05-2024		
3/90235/1/CWLSB086	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001406		Acceptable				27-05-2024		
4/90235/1/CWLSB086	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001407		Acceptable				27-05-2024		
6/90235/1/CWLSB086	**1**	**20-05-2024**	**309**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001408		Acceptable				27-05-2024		
1/90235/1/CWLSB087	**1**	**19-02-2024**	**52**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90235/1/CWLSB087	**1**	**19-02-2024**	**52**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90235/1/CWLSB087	**1**	**19-02-2024**	**52**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90235/1/CWLSB087	**1**	**19-02-2024**	**52**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Conn	NOTE	Accept. Date
1/90235/1/CWLSB088			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											
3/90235/1/CWLSB088			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											
4/90235/1/CWLSB088			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											
6/90235/1/CWLSB088			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											
1/90235/1/CWLSB089			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											
3/90235/1/CWLSB089			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											
4/90235/1/CWLSB089			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											
6/90235/1/CWLSB089			**1**		**19-02-2024**		**52**	**AX73**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**27-02-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable											

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep		Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB090	**1**	**19-02-2024**	**52**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
3/90235/1/CWLSB090	**1**	**19-02-2024**	**52**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
4/90235/1/CWLSB090	**1**	**19-02-2024**	**52**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
6/90235/1/CWLSB090	**1**	**19-02-2024**	**52**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
1/90235/1/CWLSB091	**1**	**27-02-2024**	**116**	**AX409**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000602			Acceptable					13-03-2024		
3/90235/1/CWLSB091	**1**	**27-02-2024**	**116**	**AX409**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000603			Acceptable					13-03-2024		
4/90235/1/CWLSB091	**1**	**27-02-2024**	**116**	**AX409**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000604			Acceptable					13-03-2024		
6/90235/1/CWLSB091	**1**	**27-02-2024**	**116**	**AX409**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB092	**1**	**08-03-2024**	**117**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000613		Acceptable					13-03-2024		
3/90235/1/CWLSB092	**1**	**08-03-2024**	**117**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90235/1/CWLSB092	**1**	**08-03-2024**	**117**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000615		Acceptable					13-03-2024		
6/90235/1/CWLSB092	**1**	**08-03-2024**	**117**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000614		Acceptable					13-03-2024		
1/90235/1/CWLSB093	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000285		Acceptable					26-02-2024		
3/90235/1/CWLSB093	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000286		Acceptable					26-02-2024		
4/90235/1/CWLSB093	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90235/1/CWLSB093	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90235/1/CWLSB094	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000287		Acceptable				26-02-2024		
3/90235/1/CWLSB094	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000254		Acceptable				26-02-2024		
4/90235/1/CWLSB094	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90235/1/CWLSB094	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90235/1/CWLSB095	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000255		Acceptable				26-02-2024		
3/90235/1/CWLSB095	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000256		Acceptable				26-02-2024		
4/90235/1/CWLSB095	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90235/1/CWLSB095	**1**	**21-02-2024**	**43**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90235/1/CWLSB096	**1**	**01-03-2024**	**92**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000548		Acceptable				13-03-2024		
5/90235/1/CWLSB096	**1**	**01-03-2024**	**92**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000549		Acceptable				13-03-2024		
7/90235/1/CWLSB096	**1**	**01-03-2024**	**92**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90235/1/CWLSB097	**1**	**21-02-2024**	**43**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000257		Acceptable				26-02-2024		
3/90235/1/CWLSB097	**1**	**21-02-2024**	**43**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000258		Acceptable				26-02-2024		
4/90235/1/CWLSB097	**1**	**21-02-2024**	**43**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90235/1/CWLSB097	**1**	**21-02-2024**	**43**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB098	**1**	**08-03-2024**	**122**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000647		Acceptable					18-03-2024		
3/90235/1/CWLSB098	**1**	**08-03-2024**	**122**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90235/1/CWLSB098	**1**	**08-03-2024**	**122**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000648		Acceptable					18-03-2024		
6/90235/1/CWLSB098	**1**	**08-03-2024**	**122**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000643		Acceptable					18-03-2024		
1/90235/1/CWLSB099	**1**	**22-02-2024**	**54**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90235/1/CWLSB099	**1**	**22-02-2024**	**54**	**AX73**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90235/1/CWLSB100	**1**	**22-02-2024**	**54**	**AX25**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90235/1/CWLSB100	**1**	**22-02-2024**	**54**	**AX25**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.		Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB101	**1**	**22-02-2024**	**54**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
3/90235/1/CWLSB101	**1**	**22-02-2024**	**54**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
4/90235/1/CWLSB101	**1**	**22-02-2024**	**54**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
6/90235/1/CWLSB101	**1**	**22-02-2024**	**54**	**AX73**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
1/90235/1/CWLSB102	**1**	**26-02-2024**	**63**	**AX429**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000387			Acceptable					02-03-2024		
3/90235/1/CWLSB102	**1**	**26-02-2024**	**63**	**AX429**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000388			Acceptable					02-03-2024		
4/90235/1/CWLSB102	**1**	**26-02-2024**	**63**	**AX429**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
6/90235/1/CWLSB102	**1**	**26-02-2024**	**63**	**AX429**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90235/1/CWLSB103	**1**	**26-02-2024**	**63**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90235/1/CWLSB103	**1**	**26-02-2024**	**63**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90235/1/CWLSB103	**1**	**26-02-2024**	**63**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90235/1/CWLSB103	**1**	**26-02-2024**	**63**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90235/1/CWLSB104	**1**	**08-03-2024**	**122**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000644		Acceptable				18-03-2024			
3/90235/1/CWLSB104	**1**	**08-03-2024**	**122**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000645		Acceptable				18-03-2024			
4/90235/1/CWLSB104	**1**	**08-03-2024**	**122**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000646		Acceptable				18-03-2024			
6/90235/1/CWLSB104	**1**	**08-03-2024**	**122**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000630		Acceptable				18-03-2024			

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90235/1/CWLSB105	**1**	**08-03-2024**	**122**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000640		Acceptable				18-03-2024		
3/90235/1/CWLSB105	**1**	**08-03-2024**	**122**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90235/1/CWLSB105	**1**	**08-03-2024**	**122**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000641		Acceptable				18-03-2024		
6/90235/1/CWLSB105	**1**	**08-03-2024**	**122**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000642		Acceptable				18-03-2024		
1/90235/1/CWLSB106	**1**	**08-03-2024**	**117**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000616		Acceptable				13-03-2024		
3/90235/1/CWLSB106	**1**	**08-03-2024**	**117**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90235/1/CWLSB106	**1**	**08-03-2024**	**117**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90235/1/CWLSB106	**1**	**08-03-2024**	**117**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000617		Acceptable				13-03-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB109	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000695		Acceptable					13-03-2024		
3/90235/1/CWLSB109	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000611		Acceptable					13-03-2024		
4/90235/1/CWLSB109	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000612		Acceptable					13-03-2024		
6/90235/1/CWLSB109	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90235/1/CWLSB110	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000608		Acceptable					13-03-2024		
3/90235/1/CWLSB110	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90235/1/CWLSB110	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90235/1/CWLSB110	**1**	**04-03-2024**	**118**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Conn	NOTE	Accept. Date
1/90235/1/CWLSB111			**1**		**22-02-2024**		**60**	**AX90**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**29-02-2024**
	III			UT		FIN		Weld Completion				50 %						Acceptable											
3/90235/1/CWLSB111			**1**		**22-02-2024**		**60**	**AX90**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**29-02-2024**
	III			UT		FIN		Weld Completion				50 %						Acceptable											
4/90235/1/CWLSB111			**1**		**22-02-2024**		**60**	**AX90**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**29-02-2024**
	III			UT		FIN		Weld Completion				50 %						Acceptable											
1/90235/1/CWLSB112			**1**		**22-02-2024**		**60**	**AX431**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**29-02-2024**
	III			UT		FIN		Weld Completion				50 %						Acceptable											
3/90235/1/CWLSB112			**1**		**22-02-2024**		**60**	**AX431**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**29-02-2024**
	III			UT		FIN		Weld Completion				50 %						Acceptable											
4/90235/1/CWLSB112			**1**		**22-02-2024**		**60**	**AX431**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**13-03-2024**
	III			UT		FIN		Weld Completion	IDL-QCI-UT 0214 02	MM		50 %		000622				Acceptable								13-03-2024			
6/90235/1/CWLSB112			**1**		**22-02-2024**		**60**	**AX431**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**13-03-2024**
	III			UT		FIN		Weld Completion	IDL-QCI-UT 0214 02	MM		50 %		000623				Acceptable								13-03-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90235/1/CWLSB113	**1**	**06-03-2024**	**123**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000637		Acceptable					18-03-2024		
3/90235/1/CWLSB113	**1**	**06-03-2024**	**123**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90235/1/CWLSB113	**1**	**06-03-2024**	**123**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000638		Acceptable					18-03-2024		
6/90235/1/CWLSB113	**1**	**06-03-2024**	**123**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000639		Acceptable					18-03-2024		
1/90235/1/CWLSB120	**1**	**01-03-2024**	**76**	**AX425**			**IPE**	**330,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000445		Acceptable					06-03-2024		
7/90235/1/CWLSB120	**1**	**01-03-2024**	**76**	**AX425**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000446		Acceptable					06-03-2024		
8/90235/1/CWLSB120	**1**	**01-03-2024**	**76**	**AX425**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**06-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000447		Acceptable					06-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90235/1/CWLSB122		**1**	**21-02-2024**	**45**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000279		Acceptable					26-02-2024		
7/90235/1/CWLSB122		**1**	**27-02-2024**	**69**	**AX238**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000452		Acceptable					06-03-2024		
1/90235/1/CWLSB137		**1**	**20-02-2024**	**59**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000391		Acceptable					02-03-2024		
8/90235/1/CWLSB137		**1**	**20-02-2024**	**59**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000392		Acceptable					02-03-2024		
1/90235/1/CWLSB202		**1**	**07-03-2024**	**136**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000626		Acceptable					18-03-2024		
8/90235/1/CWLSB202		**1**	**07-03-2024**	**136**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000627		Acceptable					18-03-2024		

Totals per DWG	**90235**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**25,40 m**	**157 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**25,40 m**	**157 Nr. Welds**
		Accepted	**25,40 m**	**157 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05

ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90236/1/CWLSB121		**1**	**01-03-2024**	**76**	**AX393**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000419		Acceptable				04-03-2024			
8/90236/1/CWLSB121		**1**	**01-03-2024**	**76**	**AX393**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000420		Acceptable				04-03-2024			
14/90236/1/CWLSB121		**1**	**01-03-2024**	**76**	**AX393**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000417		Acceptable				04-03-2024			
8/90236/1/CWLSB122		**1**	**21-02-2024**	**45**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000270		Acceptable				26-02-2024			
8/90236/1/CWLSB123		**1**	**21-02-2024**	**45**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000271		Acceptable				26-02-2024			
14/90236/1/CWLSB123		**1**	**27-02-2024**	**69**	**AX25**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000453		Acceptable				06-03-2024			
1/90236/1/CWLSB140		**1**	**22-02-2024**	**60**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000389		Acceptable				02-03-2024			
	deleted for revision drawing																	
8/90236/1/CWLSB140		**1**	**22-02-2024**	**60**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000390		Acceptable				02-03-2024			
	deleted for revision drawing																	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Conn	NOTE	Accept. Date
1/90236/1/CWLSB141			**1**		**22-02-2024**		**78**	**AX426**			**HEA**		**340,00 mm**		**16,50 mm**		**1/2V**		**0,300 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**06-03-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0215 03	MM		100 %		000441				Acceptable									06-03-2024		
8/90236/1/CWLSB141			**1**		**22-02-2024**		**78**	**AX426**			**HEA**		**340,00 mm**		**11,50 mm**		**1/2V**		**0,300 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**06-03-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0214 02	MM		100 %		000442				Acceptable									06-03-2024		
1/90236/1/CWLSB142			**1**		**28-02-2024**		**80**	**AX426**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**06-03-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0214 02	MM		100 %		000435				Acceptable									06-03-2024		
8/90236/1/CWLSB142			**1**		**28-02-2024**		**80**	**AX426**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**06-03-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0214 02	MM		100 %		000436				Acceptable									06-03-2024		
1/90236/1/CWLSB143			**1**		**28-02-2024**		**80**	**AX25**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**06-03-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0214 02	MM		100 %		000437				Acceptable									06-03-2024		
8/90236/1/CWLSB143			**1**		**28-02-2024**		**80**	**AX426**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**06-03-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0214 02	MM		100 %		000438				Acceptable									06-03-2024		
1/90236/1/CWLSB144			**1**		**21-02-2024**		**45**	**AX427**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**26-02-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0214 02	MM		100 %		000251				Acceptable									26-02-2024		
8/90236/1/CWLSB144			**1**		**21-02-2024**		**45**	**AX427**			**IPE**		**330,00 mm**		**11,50 mm**		**1/2V**		**0,160 m**		**M**	**C.S.**		**2A**		**FCAW**		**PARZ**	**26-02-2024**
	I	UT		FIN		Weld Completion			IDL-QCI-UT 0214 02	MM		100 %		000252				Acceptable									26-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90236/1/CWLSB145		**1**	**21-02-2024**	**45**	**AX427**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000312		Acceptable				28-02-2024		
8/90236/1/CWLSB145		**1**	**21-02-2024**	**45**	**AX427**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000313		Acceptable				28-02-2024		

Totals per DWG	**90236**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,16 m**	**18 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,16 m**	**18 Nr. Welds**
		Accepted	**3,16 m**	**18 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90237/1/CWLSB123		**2**	**21-02-2024**	**45**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000314		Acceptable					28-02-2024		
1/90237/1/CWLSB124		**2**	**21-02-2024**	**45**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000253		Acceptable					26-02-2024		
8/90237/1/CWLSB124		**2**	**21-02-2024**	**45**	**AX394**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000272		Acceptable					26-02-2024		
1/90237/1/CWLSB136		**2**	**17-02-2024**	**29**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000222		Acceptable					22-02-2024		
10/90237/1/CWLSB136		**2**	**17-02-2024**	**29**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
12/90237/1/CWLSB136		**2**	**17-02-2024**	**29**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90237/1/CWLSB138		**2**	**21-02-2024**	**45**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000273		Acceptable					26-02-2024		
8/90237/1/CWLSB138		**2**	**21-02-2024**	**45**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000274		Acceptable					26-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90237/1/CWLSB139		**2**	**21-02-2024**	**36**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000248		Acceptable					23-02-2024		
8/90237/1/CWLSB139		**2**	**21-02-2024**	**36**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000249		Acceptable					23-02-2024		
1/90237/1/CWLSB146		**2**	**21-02-2024**	**45**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000275		Acceptable					26-02-2024		
11/90237/1/CWLSB146		**2**	**21-02-2024**	**45**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000280		Acceptable					26-02-2024		
1/90237/1/CWLSB147		**2**	**21-02-2024**	**45**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000281		Acceptable					26-02-2024		
8/90237/1/CWLSB147		**2**	**21-02-2024**	**45**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000282		Acceptable					26-02-2024		
1/90237/1/CWLSB148		**2**	**21-02-2024**	**45**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000283		Acceptable					26-02-2024		
11/90237/1/CWLSB148		**2**	**21-02-2024**	**45**	**AX429**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	100 %	000284		Acceptable					26-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90237/1/CWLSB175		**2**	**17-02-2024**	**29**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000223		Acceptable					22-02-2024		
10/90237/1/CWLSB175		**2**	**17-02-2024**	**29**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
12/90237/1/CWLSB175		**2**	**17-02-2024**	**29**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90237/1/CWLSB213		**2**	**07-03-2024**	**136**	**AX238**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000624		Acceptable					18-03-2024		
8/90237/1/CWLSB213		**2**	**07-03-2024**	**136**	**AX238**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000625		Acceptable					18-03-2024		

Totals per DWG	**90237**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**4,48 m**	**21 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,48 m**	**21 Nr. Welds**
		Accepted	**4,48 m**	**21 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90245/1/CWLTB029		**1**	**04-03-2024**	**104**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000551		Acceptable					12-03-2024		
1/90245/1/CWLTB038		**1**	**06-03-2024**	**102**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000713		Acceptable					08-03-2024		
1/90245/1/CWLTB154		**1**	**22-02-2024**	**73**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000487		Acceptable					07-03-2024		
1/90245/1/CWLTB157		**1**	**19-02-2024**	**40**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000247		Acceptable					23-02-2024		

Totals per DWG	**90245**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,48 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,48 m**	**4 Nr. Welds**
		Accepted	**0,48 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
2/90246/1/CWLTB004		**1**	**06-03-2024**	**114**	**AX426**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90246/1/CWLTB004		**1**	**06-03-2024**	**114**	**AX426**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000599		Acceptable					13-03-2024		
1/90246/1/CWLTB011		**1**	**27-02-2024**	**71**	**AX410**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90246/1/CWLTB011		**1**	**27-02-2024**	**71**	**AX410**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90246/1/CWLTB031		**1**	**28-02-2024**	**106**	**AX426**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000605		Acceptable					13-03-2024		
1/90246/1/CWLTB047		**1**	**06-03-2024**	**102**	**AX426**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000553		Acceptable					12-03-2024		
3/90246/1/CWLTB086		**1**	**23-02-2024**	**46**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000268		Acceptable					26-02-2024		
5/90246/1/CWLTB086		**1**	**23-02-2024**	**46**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000269		Acceptable					26-02-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90246/1/CWLTB087	**1**	**24-02-2024**	**48**	**AX426**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000276		Acceptable				26-02-2024		
3/90246/1/CWLTB087	**1**	**24-02-2024**	**48**	**AX426**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000277		Acceptable				26-02-2024		
1/90246/1/CWLTB119	**1**	**19-02-2024**	**40**	**AX84**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000246		Acceptable				23-02-2024		
deleted for revision drawing																
3/90246/1/CWLTB119	**1**	**19-02-2024**	**40**	**AX84**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
deleted for revision drawing																
1/90246/1/CWLTB120	**1**	**23-02-2024**	**46**	**AX410**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000264		Acceptable				26-02-2024		
deleted for revision drawing																
3/90246/1/CWLTB120	**1**	**23-02-2024**	**46**	**AX410**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000265		Acceptable				26-02-2024		
deleted for revision drawing																

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90246/1/CWLTB156		**1**	**04-03-2024**	**104**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000562		Acceptable				12-03-2024		
2/90246/1/CWLTB196		**1**	**24-02-2024**	**48**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	000278		Acceptable				26-02-2024		
4/90246/1/CWLTB196		**1**	**24-02-2024**	**48**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	000250		Acceptable				26-02-2024		
1/90246/1/CWLTB197		**1**	**23-02-2024**	**46**	**AX410**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	000266		Acceptable				26-02-2024		
	deleted for revision drawing															
3/90246/1/CWLTB197		**1**	**23-02-2024**	**46**	**AX410**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	000267		Acceptable				26-02-2024		
	deleted for revision drawing															
4/90246/1/CWLTB197		**1**	**23-02-2024**	**46**	**AX410**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						
	deleted for revision drawing															
6/90246/1/CWLTB197		**1**	**23-02-2024**	**46**	**AX410**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						
	deleted for revision drawing															

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90246/1/CWLTB198	**1**	**19-02-2024**	**30**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000224		Acceptable				22-02-2024		
deleted for revision drawing																
3/90246/1/CWLTB198	**1**	**19-02-2024**	**30**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000225		Acceptable				22-02-2024		
deleted for revision drawing																
4/90246/1/CWLTB198	**1**	**19-02-2024**	**30**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000226		Acceptable				22-02-2024		
deleted for revision drawing																
6/90246/1/CWLTB198	**1**	**19-02-2024**	**30**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000227		Acceptable				22-02-2024		
deleted for revision drawing																
1/90246/1/CWLTB208	**1**	**24-02-2024**	**48**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000347		Acceptable				29-02-2024		
3/90246/1/CWLTB208	**1**	**24-02-2024**	**48**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90246/1/CWLTB209		**1**	**24-02-2024**	**48**	**AX238**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
3/90246/1/CWLTB209		**1**	**24-02-2024**	**48**	**AX238**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-02-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	000348		Acceptable				29-02-2024		

Totals per DWG	**90246**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,48 m**	**29 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,48 m**	**29 Nr. Welds**
		Accepted	**3,48 m**	**29 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90247/1/CWLTB037		**1**	**22-02-2024**	**70**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000486		Acceptable				07-03-2024		
3/90247/1/CWLTB049		**1**	**06-03-2024**	**102**	**AX90**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000606		Acceptable				13-03-2024		
1/90247/1/CWLTB051		**1**	**16-02-2024**	**38**	**AX25**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000242		Acceptable				23-02-2024		
1/90247/1/CWLTB058		**1**	**16-02-2024**	**38**	**AX25**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000243		Acceptable				23-02-2024		
3/90247/1/CWLTB059		**1**	**16-02-2024**	**38**	**AX25**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000244		Acceptable				23-02-2024		
3/90247/1/CWLTB060		**1**	**06-03-2024**	**102**	**AX90**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000554		Acceptable				12-03-2024		
3/90247/1/CWLTB064		**1**	**16-02-2024**	**38**	**AX25**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000245		Acceptable				23-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90247/1/CWLTB088		**1**	**21-02-2024**	**43**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000259		Acceptable				26-02-2024		
deleted for revision drawing																
3/90247/1/CWLTB155		**1**	**06-03-2024**	**102**	**AX73**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000607		Acceptable				13-03-2024		
1/90247/1/CWLTB175		**1**	**01-03-2024**	**150**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-03-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000718		Acceptable				26-03-2024		
1/90247/1/CWLTB200		**1**	**23-02-2024**	**46**	**AX25**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**28-02-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	000320		Acceptable				28-02-2024		

Totals per DWG	**90247**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**1,32 m**	**11 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,32 m**	**11 Nr. Welds**
		Accepted	**1,32 m**	**11 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90251/1/CWUSB003		**0**	**04-05-2024**	**270**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001210		Acceptable					10-05-2024		
2/90251/1/CWUSB003		**0**	**04-05-2024**	**270**	**AX416**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001206		Acceptable					10-05-2024		
3/90251/1/CWUSB003		**0**	**04-05-2024**	**270**	**AX416**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001207		Acceptable					10-05-2024		
4/90251/1/CWUSB003		**0**	**04-05-2024**	**270**	**AX416**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001208		Acceptable					10-05-2024		
1/90251/1/CWUSB004		**0**	**03-05-2024**	**267**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001224		Acceptable					13-05-2024		
2/90251/1/CWUSB004		**0**	**03-05-2024**	**267**	**AX414**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001220		Acceptable					13-05-2024		
3/90251/1/CWUSB004		**0**	**03-05-2024**	**267-300**	**AX414**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-05-2024**
					AX90	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001221		Acceptable					13-05-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0214 02	RS	100 %	001329		Acceptable					17-05-2024		
4/90251/1/CWUSB004		**0**	**03-05-2024**	**267**	**AX414**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001225		Acceptable					13-05-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90251/1/CWUSB005	**0**	**14-05-2024**	**292**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	001372		Acceptable					17-05-2024		
2/90251/1/CWUSB005	**0**	**14-05-2024**	**292**	**AX90**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001330		Acceptable					17-05-2024		
3/90251/1/CWUSB005	**0**	**14-05-2024**	**292**	**AX90**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001331		Acceptable					17-05-2024		
4/90251/1/CWUSB005	**0**	**14-05-2024**	**292**	**AX90**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001332		Acceptable					17-05-2024		
1/90251/1/CWUSB006	**0**	**10-05-2024**	**294**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001343		Acceptable					17-05-2024		
6/90251/1/CWUSB006	**0**	**10-05-2024**	**294**	**AX416**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001344		Acceptable					17-05-2024		
1/90251/1/CWUSB007	**0**	**15-04-2024**	**220**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000995		Acceptable					18-04-2024		
6/90251/1/CWUSB007	**0**	**15-04-2024**	**220**	**AX238**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000996		Acceptable					18-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90251/1/CWUSB008		**0**	**17-04-2024**	**226**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001051		Acceptable					22-04-2024		
6/90251/1/CWUSB008		**0**	**17-04-2024**	**226**	**AX410**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001052		Acceptable					22-04-2024		
1/90251/1/CWUSB009		**0**	**14-05-2024**	**292**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001333		Acceptable					17-05-2024		
6/90251/1/CWUSB009		**0**	**14-05-2024**	**292**	**AX414**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001334		Acceptable					17-05-2024		
1/90251/1/CWUSB010		**0**	**15-05-2024**	**293**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001346		Acceptable					17-05-2024		
6/90251/1/CWUSB010		**0**	**24-05-2024**	**315**	**AX416**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001448		Acceptable					25-05-2024		
1/90251/1/CWUSB011		**0**	**13-05-2024**	**289**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001252		Acceptable					15-05-2024		
3/90251/1/CWUSB011		**0**	**13-05-2024**	**289**	**AX414**			**PL**	**312,00 mm**	**10,00 mm**	**K**	**0,630 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001253		Acceptable					15-05-2024		
4/90251/1/CWUSB011		**0**	**13-05-2024**	**289**	**AX414**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001254		Acceptable					15-05-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90251/1/CWUSB012	**0**	**19-04-2024**	**235**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001045		Acceptable					22-04-2024		
3/90251/1/CWUSB012	**0**	**19-04-2024**	**235**	**AX410**			**PL**	**312,00 mm**	**10,00 mm**	**K**	**0,630 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001046		Acceptable					22-04-2024		
4/90251/1/CWUSB012	**0**	**19-04-2024**	**235**	**AX410**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001047		Acceptable					22-04-2024		
1/90251/1/CWUSB013	**0**	**13-05-2024**	**289**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001355		Acceptable					17-05-2024		
3/90251/1/CWUSB013	**0**	**13-05-2024**	**289**	**AX416**			**PL**	**312,00 mm**	**10,00 mm**	**K**	**0,630 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	100 %	001319		Acceptable					16-05-2024		
4/90251/1/CWUSB013	**0**	**13-05-2024**	**289**	**AX416**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001327		Acceptable					16-05-2024		
1/90251/1/CWUSB014	**0**	**06-05-2024**	**277**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001235		Acceptable					13-05-2024		
3/90251/1/CWUSB014	**0**	**06-05-2024**	**277**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cons / NOTE	Accept. Date
1/90251/1/CWUSB015		**0**	**28-03-2024**	**232**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001018		Acceptable				20-04-2024			
3/90251/1/CWUSB015		**0**	**28-03-2024**	**232**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001019		Acceptable				20-04-2024			
1/90251/1/CWUSB016		**0**	**30-04-2024**	**283**	**AX431**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90251/1/CWUSB016		**0**	**06-05-2024**	**277**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90251/1/CWUSB017		**0**	**19-04-2024**	**235**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001048		Acceptable				22-04-2024			
1/90251/1/CWUSB018		**0**	**10-05-2024**	**294**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,011 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001345		Acceptable				17-05-2024			
1/90251/1/CWUSB019		**0**	**10-05-2024**	**280**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001281		Acceptable				15-05-2024			
3/90251/1/CWUSB019		**0**	**10-05-2024**	**280**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001276		Acceptable				15-05-2024			
4/90251/1/CWUSB019		**0**	**10-05-2024**	**280**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001277		Acceptable				15-05-2024			
6/90251/1/CWUSB019		**0**	**10-05-2024**	**280**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001278		Acceptable				15-05-2024			

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB020	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000997		Acceptable				18-04-2024		
3/90251/1/CWUSB020	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000990		Acceptable				18-04-2024		
4/90251/1/CWUSB020	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000991		Acceptable				18-04-2024		
6/90251/1/CWUSB020	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000992		Acceptable				18-04-2024		
1/90251/1/CWUSB021	**0**	**13-05-2024**	**289**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001320		Acceptable				16-05-2024		
3/90251/1/CWUSB021	**0**	**13-05-2024**	**289**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001321		Acceptable				16-05-2024		
4/90251/1/CWUSB021	**0**	**13-05-2024**	**289**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001322		Acceptable				16-05-2024		
6/90251/1/CWUSB021	**0**	**13-05-2024**	**289**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001354		Acceptable				17-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB022	**0**	**07-05-2024**	**278**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001231		Acceptable				13-05-2024		
3/90251/1/CWUSB022	**0**	**07-05-2024**	**278**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90251/1/CWUSB022	**0**	**07-05-2024**	**278**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90251/1/CWUSB022	**0**	**07-05-2024**	**278**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001232		Acceptable				13-05-2024		
1/90251/1/CWUSB023	**0**	**04-05-2024**	**270**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001217		Acceptable				13-05-2024		
3/90251/1/CWUSB023	**0**	**04-05-2024**	**270**	**AX90**			**PL**	**322,00 mm**	**10,00 mm**	**K**	**0,650 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001215		Acceptable				13-05-2024		
4/90251/1/CWUSB023	**0**	**04-05-2024**	**270**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001216		Acceptable				13-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90251/1/CWUSB024	**0**	**18-04-2024**	**230**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001031		Acceptable					20-04-2024		
3/90251/1/CWUSB024	**0**	**20-04-2024**	**240**	**AX25**			**PL**	**322,00 mm**	**10,00 mm**	**K**	**0,650 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001083		Acceptable					23-04-2024		
4/90251/1/CWUSB024	**0**	**20-04-2024**	**240**	**AX25**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001084		Acceptable					23-04-2024		
1/90251/1/CWUSB025	**0**	**10-05-2024**	**286**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001324		Acceptable					16-05-2024		
2/90251/1/CWUSB025	**0**	**10-05-2024**	**286**	**AX90**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001317		Acceptable					16-05-2024		
3/90251/1/CWUSB025	**0**	**10-05-2024**	**286**	**AX90**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	100 %	001325		Acceptable					16-05-2024		
4/90251/1/CWUSB025	**0**	**10-05-2024**	**286**	**AX90**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001326		Acceptable					16-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90251/1/CWUSB026		**0**	**29-03-2024**	**179-229**	**AX238**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-04-2024**
					AX426	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000808		Repair				0,240 m	09-04-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	MM	100 %	001119		Acceptable					24-04-2024		
2/90251/1/CWUSB026		**0**	**29-03-2024**	**179**	**AX238**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000809		Acceptable					09-04-2024		
3/90251/1/CWUSB026		**0**	**29-03-2024**	**179**	**AX238**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000810		Acceptable					09-04-2024		
4/90251/1/CWUSB026		**0**	**29-03-2024**	**179**	**AX238**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000811		Acceptable					09-04-2024		
1/90251/1/CWUSB027		**0**	**06-05-2024**	**277**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90251/1/CWUSB027		**0**	**06-05-2024**	**277**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90251/1/CWUSB027		**0**	**06-05-2024**	**277**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001251		Acceptable					13-05-2024		
6/90251/1/CWUSB027		**0**	**06-05-2024**	**277**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90251/1/CWUSB028	**0**	**28-03-2024**	**232**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001020		Acceptable					20-04-2024		
3/90251/1/CWUSB028	**0**	**28-03-2024**	**232**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001021		Acceptable					20-04-2024		
4/90251/1/CWUSB028	**0**	**28-03-2024**	**232**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001022		Acceptable					20-04-2024		
6/90251/1/CWUSB028	**0**	**28-03-2024**	**232**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001023		Acceptable					20-04-2024		
1/90251/1/CWUSB029	**0**	**06-05-2024**	**277**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001211		Acceptable					10-05-2024		
3/90251/1/CWUSB029	**0**	**06-05-2024**	**277**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90251/1/CWUSB029	**0**	**06-05-2024**	**277**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001212		Acceptable					10-05-2024		
6/90251/1/CWUSB029	**0**	**06-05-2024**	**277**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90251/1/CWUSB030		**0**	**16-04-2024**	**223**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001108		Acceptable					23-04-2024		
2/90251/1/CWUSB030		**0**	**16-04-2024**	**223**	**AX426**			**HEA**	**340,00 mm**	**9,50 mm**	**K**	**0,314 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001109		Acceptable					23-04-2024		
3/90251/1/CWUSB030		**0**	**16-04-2024**	**223**	**AX426**			**PL**	**642,00 mm**	**15,00 mm**	**K**	**0,645 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001110		Acceptable					23-04-2024		
4/90251/1/CWUSB030		**0**	**16-04-2024**	**223**	**AX426**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001111		Acceptable					23-04-2024		
1/90251/1/CWUSB031		**0**	**11-05-2024**	**291**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001339		Acceptable					17-05-2024		
3/90251/1/CWUSB031		**0**	**11-05-2024**	**291**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001340		Acceptable					17-05-2024		
4/90251/1/CWUSB031		**0**	**11-05-2024**	**291**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001341		Acceptable					17-05-2024		
6/90251/1/CWUSB031		**0**	**11-05-2024**	**291**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001342		Acceptable					17-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90251/1/CWUSB032	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000993		Acceptable					18-04-2024		
3/90251/1/CWUSB032	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000994		Acceptable					18-04-2024		
4/90251/1/CWUSB032	**0**	**15-04-2024**	**220**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000985		Acceptable					18-04-2024		
6/90251/1/CWUSB032	**0**	**15-04-2024**	**220**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000986		Acceptable					18-04-2024		
1/90251/1/CWUSB033	**0**	**06-05-2024**	**277**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001239		Acceptable					13-05-2024		
3/90251/1/CWUSB033	**0**	**06-05-2024**	**277**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90251/1/CWUSB033	**0**	**06-05-2024**	**277**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90251/1/CWUSB033	**0**	**06-05-2024**	**277**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001240		Acceptable					13-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB034	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000987		Acceptable				18-04-2024		
3/90251/1/CWUSB034	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000988		Acceptable				18-04-2024		
4/90251/1/CWUSB034	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000989		Acceptable				18-04-2024		
6/90251/1/CWUSB034	**0**	**15-04-2024**	**220**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000999		Acceptable				18-04-2024		
1/90251/1/CWUSB035	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000974		Acceptable				18-04-2024		
3/90251/1/CWUSB035	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000975		Acceptable				18-04-2024		
4/90251/1/CWUSB035	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000976		Acceptable				18-04-2024		
6/90251/1/CWUSB035	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000977		Acceptable				18-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB036	**0**	**08-05-2024**	**279**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001233		Acceptable				13-05-2024		
3/90251/1/CWUSB036	**0**	**08-05-2024**	**279**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90251/1/CWUSB036	**0**	**08-05-2024**	**279**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90251/1/CWUSB036	**0**	**08-05-2024**	**279**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001234		Acceptable				13-05-2024		
1/90251/1/CWUSB037	**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001318		Acceptable				16-05-2024		
3/90251/1/CWUSB037	**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001259		Acceptable				15-05-2024		
4/90251/1/CWUSB037	**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001260		Acceptable				15-05-2024		
6/90251/1/CWUSB037	**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001261		Acceptable				15-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB038	**0**	**08-05-2024**	**279**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001219		Acceptable				13-05-2024		
6/90251/1/CWUSB038	**0**	**08-05-2024**	**279**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001218		Acceptable				13-05-2024		
1/90251/1/CWUSB039	**0**	**18-04-2024**	**230**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001032		Acceptable				20-04-2024		
6/90251/1/CWUSB039	**0**	**18-04-2024**	**230**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001040		Acceptable				20-04-2024		
1/90251/1/CWUSB048	**0**	**16-04-2024**	**222**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001063		Acceptable				23-04-2024		
3/90251/1/CWUSB048	**0**	**16-04-2024**	**222**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001064		Acceptable				23-04-2024		
4/90251/1/CWUSB048	**0**	**16-04-2024**	**222**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001065		Acceptable				23-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB049	**0**	**28-06-2024**	**356**	**AX25**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001674		Acceptable				04-07-2024		
3/90251/1/CWUSB049	**0**	**28-06-2024**	**356**	**AX25**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001675		Acceptable				04-07-2024		
4/90251/1/CWUSB049	**0**	**28-06-2024**	**356**	**AX25**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001676		Acceptable				04-07-2024		
6/90251/1/CWUSB049	**0**	**28-06-2024**	**356**	**AX25**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001677		Acceptable				04-07-2024		
1/90251/1/CWUSB050	**0**	**28-06-2024**	**358**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90251/1/CWUSB050	**0**	**28-06-2024**	**358**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90251/1/CWUSB050	**0**	**28-06-2024**	**358**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90251/1/CWUSB050	**0**	**28-06-2024**	**358**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90251/1/CWUSB051	**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001087		Acceptable					23-04-2024		
3/90251/1/CWUSB051	**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001088		Acceptable					23-04-2024		
4/90251/1/CWUSB051	**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001089		Acceptable					23-04-2024		
6/90251/1/CWUSB051	**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001090		Acceptable					23-04-2024		
1/90251/1/CWUSB052	**0**	**13-05-2024**	**289**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001255		Acceptable					15-05-2024		
3/90251/1/CWUSB052	**0**	**13-05-2024**	**289**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001256		Acceptable					15-05-2024		
4/90251/1/CWUSB052	**0**	**13-05-2024**	**289**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001257		Acceptable					15-05-2024		
6/90251/1/CWUSB052	**0**	**13-05-2024**	**289**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001258		Acceptable					15-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB053	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000973		Acceptable				18-04-2024		
3/90251/1/CWUSB053	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000969		Acceptable				18-04-2024		
4/90251/1/CWUSB053	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000970		Acceptable				18-04-2024		
6/90251/1/CWUSB053	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000971		Acceptable				18-04-2024		
1/90251/1/CWUSB054	**0**	**15-04-2024**	**305**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90251/1/CWUSB054	**0**	**15-04-2024**	**305**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90251/1/CWUSB054	**0**	**15-04-2024**	**305**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90251/1/CWUSB054	**0**	**15-04-2024**	**305**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90251/1/CWUSB055		**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001091		Acceptable					23-04-2024		
3/90251/1/CWUSB055		**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001092		Acceptable					23-04-2024		
4/90251/1/CWUSB055		**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001093		Acceptable					23-04-2024		
6/90251/1/CWUSB055		**0**	**19-04-2024**	**236**	**AX410**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001094		Acceptable					23-04-2024		
1/90251/1/CWUSB056		**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001262		Acceptable					15-05-2024		
3/90251/1/CWUSB056		**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001263		Acceptable					15-05-2024		
4/90251/1/CWUSB056		**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001264		Acceptable					15-05-2024		
6/90251/1/CWUSB056		**0**	**10-05-2024**	**286**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001265		Acceptable					15-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB057	**0**	**11-04-2024**	**218**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000980		Acceptable				18-04-2024		
3/90251/1/CWUSB057	**0**	**11-04-2024**	**218**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000981		Acceptable				18-04-2024		
4/90251/1/CWUSB057	**0**	**11-04-2024**	**218**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000982		Acceptable				18-04-2024		
6/90251/1/CWUSB057	**0**	**11-04-2024**	**218**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000983		Acceptable				18-04-2024		
1/90251/1/CWUSB058	**0**	**14-05-2024**	**292**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001335		Acceptable				17-05-2024		
3/90251/1/CWUSB058	**0**	**14-05-2024**	**292**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001336		Acceptable				17-05-2024		
4/90251/1/CWUSB058	**0**	**14-05-2024**	**292**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001337		Acceptable				17-05-2024		
6/90251/1/CWUSB058	**0**	**14-05-2024**	**292**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001338		Acceptable				17-05-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB059	**0**	**11-04-2024**	**216**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001004		Acceptable				18-04-2024		
6/90251/1/CWUSB059	**0**	**11-04-2024**	**216**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001005		Acceptable				18-04-2024		
1/90251/1/CWUSB060	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000972		Acceptable				18-04-2024		
6/90251/1/CWUSB060	**0**	**12-04-2024**	**217**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000967		Acceptable				18-04-2024		
6/90251/1/CWUSB061	**0**	**08-05-2024**	**279**	**AX414**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001222		Acceptable				13-05-2024		
1/90251/1/CWUSB062	**0**	**11-04-2024**	**218**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000984		Acceptable				18-04-2024		
3/90251/1/CWUSB062	**0**	**11-04-2024**	**218**	**AX84**			**PL**	**312,00 mm**	**10,00 mm**	**K**	**0,630 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000978		Acceptable				18-04-2024		
4/90251/1/CWUSB062	**0**	**11-04-2024**	**218**	**AX84**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000979		Acceptable				18-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB063	**0**	**04-05-2024**	**276**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001213		Acceptable				13-05-2024		
7/90251/1/CWUSB063	**0**	**04-05-2024**	**276**	**AX414**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001214		Acceptable				13-05-2024		
1/90251/1/CWUSB064	**0**	**12-04-2024**	**217**	**AX84**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000968		Acceptable				18-04-2024		
1/90251/1/CWUSB065	**0**	**13-05-2024**	**289**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,011 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	100 %	001312		Acceptable				16-05-2024		
1/90251/1/CWUSB066	**0**	**16-04-2024**	**222**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001066		Acceptable				23-04-2024		
5/90251/1/CWUSB066	**0**	**16-04-2024**	**222**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001068		Acceptable				23-04-2024		
7/90251/1/CWUSB066	**0**	**16-04-2024**	**222**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001069		Acceptable				23-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90251/1/CWUSB067		**0**	**16-04-2024**	**223**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001112		Acceptable				23-04-2024			
5/90251/1/CWUSB067		**0**	**16-04-2024**	**223**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001113		Acceptable				23-04-2024			
1/90251/1/CWUSB077		**0**	**10-05-2024**	**280**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	001371		Acceptable				17-05-2024			
7/90251/1/CWUSB077		**0**	**10-05-2024**	**280**	**AX416**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001356		Acceptable				17-05-2024			
1/90251/1/CWUSB078		**0**	**18-04-2024**	**230**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001041		Acceptable				20-04-2024			
7/90251/1/CWUSB078		**0**	**18-04-2024**	**230**	**AX414**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001039		Acceptable				20-04-2024			
1/90251/1/CWUSB079		**0**	**17-04-2024**	**227**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001059		Acceptable				22-04-2024			
7/90251/1/CWUSB079		**0**	**17-04-2024**	**227**	**AX90**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001044		Acceptable				22-04-2024			

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90251/1/CWUSB080	**0**	**19-04-2024**	**235**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001049		Acceptable				22-04-2024		
7/90251/1/CWUSB080	**0**	**19-04-2024**	**235**	**AX414**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001103		Acceptable				23-04-2024		
1/90251/1/CWUSB081	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	100 %	001323		Acceptable				16-05-2024		
6/90251/1/CWUSB081	**0**	**10-05-2024**	**286**	**AX416**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	001361		Acceptable				17-05-2024		
1/90251/1/CWUSB082	**0**	**16-04-2024**	**223**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001114		Acceptable				23-04-2024		
7/90251/1/CWUSB082	**0**	**16-04-2024**	**223**	**AX90**			**PL**	**160,00 mm**	**15,00 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001043		Acceptable				22-04-2024		
1/90251/1/CWUSB083	**0**	**15-04-2024**	**220**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001000		Acceptable				18-04-2024		
3/90251/1/CWUSB083	**0**	**15-04-2024**	**220**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001001		Acceptable				18-04-2024		
4/90251/1/CWUSB083	**0**	**15-04-2024**	**220**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001002		Acceptable				18-04-2024		
6/90251/1/CWUSB083	**0**	**15-04-2024**	**220**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001003		Acceptable				18-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
1/90251/1/CWUSB118	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001362		Acceptable				17-05-2024			
3/90251/1/CWUSB118	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001363		Acceptable				17-05-2024			
4/90251/1/CWUSB118	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001364		Acceptable				17-05-2024			
6/90251/1/CWUSB118	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001365		Acceptable				17-05-2024			
1/90251/1/CWUSB119	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001366		Acceptable				17-05-2024			
3/90251/1/CWUSB119	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001367		Acceptable				17-05-2024			
4/90251/1/CWUSB119	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001368		Acceptable				17-05-2024			
6/90251/1/CWUSB119	**0**	**10-05-2024**	**286**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	001369		Acceptable				17-05-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90251/1/CWUSB120		**0**	**19-04-2024**	**236**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001095		Acceptable					23-04-2024		
3/90251/1/CWUSB120		**0**	**19-04-2024**	**236**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001096		Acceptable					23-04-2024		
4/90251/1/CWUSB120		**0**	**19-04-2024**	**236**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001097		Acceptable					23-04-2024		
6/90251/1/CWUSB120		**0**	**19-04-2024**	**236**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001098		Acceptable					23-04-2024		
1/90251/1/CWUSB121		**0**	**20-04-2024**	**242**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90251/1/CWUSB121		**0**	**20-04-2024**	**242**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90251/1/CWUSB121		**0**	**20-04-2024**	**242**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90251/1/CWUSB121		**0**	**20-04-2024**	**242**	**AX414**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90251/1/CWUSB122	**0**	**19-04-2024**	**236**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001099		Acceptable					23-04-2024		
3/90251/1/CWUSB122	**0**	**19-04-2024**	**236**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001102		Acceptable					23-04-2024		
4/90251/1/CWUSB122	**0**	**19-04-2024**	**236**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001100		Acceptable					23-04-2024		
6/90251/1/CWUSB122	**0**	**19-04-2024**	**236**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001101		Acceptable					23-04-2024		
1/90251/1/CWUSB127	**0**	**19-04-2024**	**235**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001104		Acceptable					23-04-2024		
3/90251/1/CWUSB127	**0**	**19-04-2024**	**235**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001105		Acceptable					23-04-2024		
4/90251/1/CWUSB127	**0**	**19-04-2024**	**235**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001106		Acceptable					23-04-2024		
6/90251/1/CWUSB127	**0**	**19-04-2024**	**235**	**AX238**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001107		Acceptable					23-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90251/1/CWUSB148		**0**	**08-05-2024**	**279**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03		MM	100 %	001209		Acceptable				10-05-2024			
7/90251/1/CWUSB148		**0**	**09-05-2024**	**281**	**AX411**			**PL**	**300,00 mm**	**15,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		MM	100 %	001223		Acceptable				13-05-2024			
1/90251/1/CWUSB175		**0**	**11-05-2024**	**285**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		RS	50 %	001357		Acceptable				17-05-2024			
3/90251/1/CWUSB175		**0**	**11-05-2024**	**285**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		RS	50 %	001358		Acceptable				17-05-2024			
4/90251/1/CWUSB175		**0**	**11-05-2024**	**285**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		RS	50 %	001359		Acceptable				17-05-2024			
6/90251/1/CWUSB175		**0**	**11-05-2024**	**285**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		RS	50 %	001360		Acceptable				17-05-2024			
1/90251/1/CWUSB176		**0**	**13-05-2024**	**289**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		TN	50 %	001313		Acceptable				16-05-2024			
3/90251/1/CWUSB176		**0**	**13-05-2024**	**289**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		TN	50 %	001314		Acceptable				16-05-2024			
4/90251/1/CWUSB176		**0**	**13-05-2024**	**289**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		TN	50 %	001315		Acceptable				16-05-2024			
6/90251/1/CWUSB176		**0**	**13-05-2024**	**289**	**AX416**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02		TN	50 %	001316		Acceptable				16-05-2024			

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
6/90251/1/CWUSB176	**0**	**13-05-2024**	**289**	**AX416**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-05-2024**

Totals per DWG	**90251**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**45,36 m**	**227 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**45,36 m**	**227 Nr. Welds**
		Accepted	**45,36 m**	**227 Nr. Welds**
		Repaired	**0,24 m**	**1 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Conn	NOTE	Accept. Date
1/90252/1/CWUSB001	I	UT	**2**		**15-04-2024**	FIN	**220**	**AX425**	IDL-QCI-UT 0215 03	MM	**HEA**	100 %	**500,00 mm**	000938	**23,00 mm**		**1/2V**	Acceptable	**0,300 m**		**M**	**C.S.**		**2A**		**FCAW**	17-04-2024	**BW**		**17-04-2024**
6/90252/1/CWUSB001	I	UT	**2**		**15-04-2024**	FIN	**220**	**AX427**	IDL-QCI-UT 0215 03	MM	**HEA**	100 %	**500,00 mm**	000939	**23,00 mm**		**1/2V**	Acceptable	**0,300 m**		**M**	**C.S.**		**2A**		**FCAW**	17-04-2024	**PARZ**		**17-04-2024**
1/90252/1/CWUSB002	I	UT	**2**		**11-04-2024**	FIN	**218**	**AX393**	IDL-QCI-UT 0215 03	MM	**HEA**	100 %	**500,00 mm**	000947	**23,00 mm**		**1/2V**	Acceptable	**0,300 m**		**M**	**C.S.**		**2A**		**FCAW**	17-04-2024	**BW**		**17-04-2024**
2/90252/1/CWUSB002	I	UT	**2**		**11-04-2024**	FIN	**218**	**AX393**	IDL-QCI-UT 0214 02	MM	**HEA**	100 %	**500,00 mm**	000948	**12,00 mm**		**K**	Acceptable	**0,475 m**		**M**	**C.S.**		**2A**		**FCAW**	17-04-2024	**BW**		**17-04-2024**
3/90252/1/CWUSB002	I	UT	**2**		**11-04-2024**	FIN	**218**	**AX393**	IDL-QCI-UT 0214 02	MM	**PL**	100 %	**483,50 mm**	000949	**15,00 mm**		**K**	Acceptable	**0,485 m**		**M**	**C.S.**		**2A**		**FCAW**	17-04-2024	**BW**		**17-04-2024**
4/90252/1/CWUSB002	I	UT	**2**		**11-04-2024**	FIN	**218**	**AX393**	IDL-QCI-UT 0215 03	MM	**PL**	100 %	**300,00 mm**	000933	**25,00 mm**		**1/2V**	Acceptable	**0,300 m**		**M**	**C.S.**		**2A**		**FCAW**	17-04-2024	**T**		**17-04-2024**
5/90252/1/CWUSB002	III	UT	**2**		**12-04-2024**	FIN	**231**	**AX394**	IDL-QCI-UT 0215 03	MM	**HEA**	50 %	**500,00 mm**	001042	**23,00 mm**		**1/2V**	Acceptable	**0,300 m**		**M**	**C.S.**		**2A**		**FCAW**	20-04-2024	**PARZ**		**20-04-2024**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90252/1/CWUSB040		**2**	**16-04-2024**	**222**	**AX238**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**23-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000961		Acceptable					18-04-2024		
5/90252/1/CWUSB040		**2**	**16-04-2024**	**222**	**AX425**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000959		Acceptable					18-04-2024		
7/90252/1/CWUSB040		**2**	**16-04-2024**	**222**	**AX425**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000960		Acceptable					18-04-2024		
1/90252/1/CWUSB041		**2**	**18-04-2024**	**233**	**AX427**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001121		Acceptable					27-04-2024		
4/90252/1/CWUSB041		**2**	**18-04-2024**	**233**	**AX427**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001122		Acceptable					27-04-2024		
1/90252/1/CWUSB042		**2**	**11-04-2024**	**218**	**AX427**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000934		Acceptable					17-04-2024		
2/90252/1/CWUSB042		**2**	**11-04-2024**	**218**	**AX427**			**HEA**	**500,00 mm**	**12,00 mm**	**K**	**0,475 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000936		Acceptable					17-04-2024		
3/90252/1/CWUSB042		**2**	**11-04-2024**	**218**	**AX427**			**PL**	**483,50 mm**	**15,00 mm**	**K**	**0,485 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000937		Acceptable					17-04-2024		
4/90252/1/CWUSB042		**2**	**11-04-2024**	**218**	**AX427**			**PL**	**300,00 mm**	**25,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000935		Acceptable					17-04-2024		
5/90252/1/CWUSB042		**2**	**12-04-2024**	**221**	**AX427**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000958		Acceptable					18-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90252/1/CWUSB044	**2**	**16-04-2024**	**223**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001057		Acceptable				22-04-2024		
4/90252/1/CWUSB044	**2**	**16-04-2024**	**223**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001058		Acceptable				22-04-2024		
1/90252/1/CWUSB045	**2**	**15-04-2024**	**220**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000940		Acceptable				17-04-2024		
4/90252/1/CWUSB045	**2**	**15-04-2024**	**220**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000941		Acceptable				17-04-2024		
1/90252/1/CWUSB046	**2**	**15-04-2024**	**220**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000942		Acceptable				17-04-2024		
4/90252/1/CWUSB046	**2**	**15-04-2024**	**220**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000943		Acceptable				17-04-2024		
1/90252/1/CWUSB047	**2**	**15-04-2024**	**220**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000944		Acceptable				17-04-2024		
4/90252/1/CWUSB047	**2**	**15-04-2024**	**220**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000945		Acceptable				17-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90252/1/CWUSB084		**2**	**03-05-2024**	**267-300**	**AX411**		**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-05-2024**
					AX90 **Repair done**												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001188		Acceptable					09-05-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 03	RS	100 %	001373		Acceptable					17-05-2024		
6/90252/1/CWUSB084		**2**	**03-05-2024**	**267**	**AX411**		**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001197		Acceptable					09-05-2024		
1/90252/1/CWUSB085		**2**	**18-04-2024**	**243**	**AX90**		**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**24-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001395		Acceptable					23-05-2024		
6/90252/1/CWUSB085		**2**	**18-04-2024**	**243**	**AX90**		**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**24-05-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001396		Acceptable					23-05-2024		
1/90252/1/CWUSB086		**2**	**16-04-2024**	**252**	**AX416**		**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001123		Acceptable					27-04-2024		
6/90252/1/CWUSB086		**2**	**16-04-2024**	**252**	**AX416**		**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001124		Acceptable					27-04-2024		
1/90252/1/CWUSB095		**2**	**09-04-2024**	**200**	**AX90**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000845		Acceptable					12-04-2024		
6/90252/1/CWUSB095		**2**	**09-04-2024**	**200**	**AX90**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000846		Acceptable					12-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90252/1/CWUSB096	**2**	**09-04-2024**	**200**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000847		Acceptable				12-04-2024		
6/90252/1/CWUSB096	**2**	**09-04-2024**	**200**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000848		Acceptable				12-04-2024		
1/90252/1/CWUSB097	**2**	**09-04-2024**	**200**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000849		Acceptable				12-04-2024		
6/90252/1/CWUSB097	**2**	**09-04-2024**	**200**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000850		Acceptable				12-04-2024		
1/90252/1/CWUSB098	**2**	**09-04-2024**	**200**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000851		Acceptable				12-04-2024		
6/90252/1/CWUSB098	**2**	**09-04-2024**	**200**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000852		Acceptable				12-04-2024		
1/90252/1/CWUSB099	**2**	**17-04-2024**	**255**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001143		Acceptable				29-04-2024		
6/90252/1/CWUSB099	**2**	**17-04-2024**	**255**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001144		Acceptable				29-04-2024		

Rosetti Marino S.p.A.

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Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
4/90252/1/CWUSB114		**2**	**11-04-2024**	**215**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000908		Acceptable					16-04-2024		
4/90252/1/CWUSB115		**2**	**03-05-2024**	**267**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001204		Acceptable					09-05-2024		
	deleted for revision drawing																	
4/90252/1/CWUSB116		**2**	**18-04-2024**	**256**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001155		Acceptable					29-04-2024		
	deleted for revision drawing																	
1/90252/1/CWUSB123		**2**	**09-04-2024**	**213**	**AX426**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000897		Acceptable					15-04-2024		
6/90252/1/CWUSB123		**2**	**09-04-2024**	**213**	**AX426**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000898		Acceptable					15-04-2024		
1/90252/1/CWUSB124		**2**	**09-04-2024**	**200**	**AX426**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000853		Acceptable					12-04-2024		
6/90252/1/CWUSB124		**2**	**09-04-2024**	**200**	**AX426**			**HEA**	**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000854		Acceptable					12-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90252/1/CWUSB125		**2**	**15-04-2024**	**254**	**AX394**		**HEA**		**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001141		Acceptable				29-04-2024		
6/90252/1/CWUSB125		**2**	**15-04-2024**	**254**	**AX394**		**HEA**		**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001142		Acceptable				29-04-2024		
1/90252/1/CWUSB126		**2**	**15-04-2024**	**254**	**AX394**		**HEA**		**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001139		Acceptable				29-04-2024		
6/90252/1/CWUSB126		**2**	**15-04-2024**	**254**	**AX394**		**HEA**		**500,00 mm**	**23,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	001140		Acceptable				29-04-2024		

Totals per DWG	**90252**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**16,34 m**	**52 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**16,34 m**	**52 Nr. Welds**
		Accepted	**16,34 m**	**52 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB087	**4**	**10-04-2024**	**210**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000876		Acceptable				15-04-2024		
5/90253/1/CWUSB087	**4**	**10-04-2024**	**210**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000877		Acceptable				15-04-2024		
1/90253/1/CWUSB088	**4**	**03-04-2024**	**207**	**AX393**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000843		Acceptable				12-04-2024		
5/90253/1/CWUSB088	**4**	**09-04-2024**	**213**	**AX238**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000893		Acceptable				15-04-2024		
1/90253/1/CWUSB089	**4**	**10-04-2024**	**199**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000855		Acceptable				12-04-2024		
5/90253/1/CWUSB089	**4**	**10-04-2024**	**199**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000856		Acceptable				12-04-2024		
1/90253/1/CWUSB090	**4**	**09-04-2024**	**213**	**AX393**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000894		Acceptable				15-04-2024		
5/90253/1/CWUSB090	**4**	**09-04-2024**	**213**	**AX393**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000895		Acceptable				15-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB091		**4**	**10-04-2024**	**199**	**AX426**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000857		Acceptable				12-04-2024		
5/90253/1/CWUSB091		**4**	**10-04-2024**	**199**	**AX426**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000858		Acceptable				12-04-2024		
1/90253/1/CWUSB092		**4**	**09-04-2024**	**213**	**AX393**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000896		Acceptable				15-04-2024		
5/90253/1/CWUSB092		**4**	**09-04-2024**	**213**	**AX393**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000891		Acceptable				15-04-2024		
1/90253/1/CWUSB093		**4**	**10-04-2024**	**199**	**AX426**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000859		Acceptable				12-04-2024		
7/90253/1/CWUSB093		**4**	**10-04-2024**	**199**	**AX426**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000860		Acceptable				12-04-2024		
1/90253/1/CWUSB094		**4**	**09-04-2024**	**211**	**AX238**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000885		Acceptable				15-04-2024		
7/90253/1/CWUSB094		**4**	**09-04-2024**	**211**	**AX238**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000875		Acceptable				15-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB101		**4**	**09-04-2024**	**213**	**AX84**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000892		Acceptable				15-04-2024		
7/90253/1/CWUSB101		**4**	**09-04-2024**	**213**	**AX84**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000888		Acceptable				15-04-2024		
1/90253/1/CWUSB102		**4**	**03-04-2024**	**207**	**AX394**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000844		Acceptable				12-04-2024		
5/90253/1/CWUSB102		**4**	**03-04-2024**	**207**	**AX394**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000863		Acceptable				13-04-2024		
1/90253/1/CWUSB103		**4**	**09-04-2024**	**213**	**AX393**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000889		Acceptable				15-04-2024		
5/90253/1/CWUSB103		**4**	**09-04-2024**	**213**	**AX393**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000890		Acceptable				15-04-2024		
1/90253/1/CWUSB104		**4**	**09-04-2024**	**213**	**AX426**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000886		Acceptable				15-04-2024		
5/90253/1/CWUSB104		**4**	**09-04-2024**	**213**	**AX426**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000887		Acceptable				15-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB105	**4**	**10-04-2024**	**199**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000861		Acceptable				12-04-2024		
5/90253/1/CWUSB105	**4**	**10-04-2024**	**199**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000862		Acceptable				12-04-2024		
1/90253/1/CWUSB106	**4**	**17-04-2024**	**255**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001145		Acceptable				29-04-2024		
5/90253/1/CWUSB106	**4**	**17-04-2024**	**255**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001146		Acceptable				29-04-2024		
1/90253/1/CWUSB107	**4**	**17-04-2024**	**255**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001147		Acceptable				29-04-2024		
5/90253/1/CWUSB107	**4**	**17-04-2024**	**255**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001148		Acceptable				29-04-2024		
1/90253/1/CWUSB108	**4**	**17-04-2024**	**255**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001149		Acceptable				29-04-2024		
5/90253/1/CWUSB108	**4**	**17-04-2024**	**255**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001150		Acceptable				29-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB109	**4**	**18-04-2024**	**256**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001153		Acceptable				29-04-2024		
5/90253/1/CWUSB109	**4**	**18-04-2024**	**256**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001154		Acceptable				29-04-2024		
1/90253/1/CWUSB110	**4**	**03-05-2024**	**267**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001193		Acceptable				09-05-2024		
5/90253/1/CWUSB110	**4**	**03-05-2024**	**267**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001194		Acceptable				09-05-2024		
1/90253/1/CWUSB111	**4**	**03-05-2024**	**335**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001478		Acceptable				07-06-2024		
5/90253/1/CWUSB111	**4**	**03-05-2024**	**335**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001479		Acceptable				07-06-2024		
1/90253/1/CWUSB112	**4**	**03-05-2024**	**267**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001195		Acceptable				09-05-2024		
5/90253/1/CWUSB112	**4**	**03-05-2024**	**267**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001196		Acceptable				09-05-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90253/1/CWUSB113	**4**	**04-05-2024**	**276**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001183		Acceptable					09-05-2024		
5/90253/1/CWUSB113	**4**	**04-05-2024**	**276**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001182		Acceptable					09-05-2024		
1/90253/1/CWUSB114	**4**	**11-04-2024**	**215**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000909		Acceptable					16-04-2024		
3/90253/1/CWUSB114	**4**	**11-04-2024**	**215**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90253/1/CWUSB115	**4**	**03-05-2024**	**267**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001186		Acceptable					09-05-2024		
deleted for revision drawing																	
3/90253/1/CWUSB115	**4**	**03-05-2024**	**267**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001187		Acceptable					09-05-2024		
deleted for revision drawing																	
1/90253/1/CWUSB116	**4**	**18-04-2024**	**256**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001156		Acceptable					29-04-2024		
deleted for revision drawing																	
3/90253/1/CWUSB116	**4**	**18-04-2024**	**256**	**AX416**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
deleted for revision drawing																	

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90253/1/CWUSB117	**4**	**12-04-2024**	**214**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000951		Acceptable					18-04-2024		
3/90253/1/CWUSB117	**4**	**12-04-2024**	**214**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000952		Acceptable					18-04-2024		
4/90253/1/CWUSB117	**4**	**12-04-2024**	**214**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000953		Acceptable					18-04-2024		
1/90253/1/CWUSB128	**4**	**11-04-2024**	**215**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000910		Acceptable					16-04-2024		
3/90253/1/CWUSB128	**4**	**11-04-2024**	**215**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90253/1/CWUSB128	**4**	**11-04-2024**	**215**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000911		Acceptable					16-04-2024		
6/90253/1/CWUSB128	**4**	**11-04-2024**	**215**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90253/1/CWUSB129	III	**4** / UT	**12-04-2024** / FIN	**214** Weld Completion	**AX238**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 000904	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 16-04-2024	**PARZ**	**16-04-2024**
3/90253/1/CWUSB129	III	**4** / UT	**12-04-2024** / FIN	**214** Weld Completion	**AX238**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 000905	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 16-04-2024	**PARZ**	**16-04-2024**
4/90253/1/CWUSB129	III	**4** / UT	**12-04-2024** / FIN	**214** Weld Completion	**AX238**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 000906	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 16-04-2024	**PARZ**	**16-04-2024**
6/90253/1/CWUSB129	III	**4** / UT	**12-04-2024** / FIN	**214** Weld Completion	**AX238**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 000907	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 16-04-2024	**PARZ**	**16-04-2024**
3/90253/1/CWUSB130	III	**4** / UT	**18-04-2024** / FIN	**256** Weld Completion	**AX414**			**HEA** 50 %	**340,00 mm**	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-04-2024**
deleted for revision drawing																		
6/90253/1/CWUSB130	III	**4** / UT	**18-04-2024** / FIN	**256** Weld Completion	**AX414**			**HEA** 50 %	**340,00 mm**	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-04-2024**
deleted for revision drawing																		
1/90253/1/CWUSB131	III	**4** / UT	**15-04-2024** / FIN	**254** Weld Completion	**AX414**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 001135	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 29-04-2024	**PARZ**	**06-05-2024**
3/90253/1/CWUSB131	III	**4** / UT	**15-04-2024** / FIN	**254** Weld Completion	**AX414**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 001136	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 29-04-2024	**PARZ**	**06-05-2024**
4/90253/1/CWUSB131	III	**4** / UT	**15-04-2024** / FIN	**254** Weld Completion	**AX414**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 001137	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 29-04-2024	**PARZ**	**06-05-2024**
6/90253/1/CWUSB131	III	**4** / UT	**15-04-2024** / FIN	**254** Weld Completion	**AX414**	IDL-QCI-UT 0215 03	MM	**HEA** 50 %	**340,00 mm** 001138	**16,50 mm**	**1/2V** Acceptable	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW** 29-04-2024	**PARZ**	**06-05-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB132	**4**	**18-04-2024**	**256**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001129		Acceptable				29-04-2024		
3/90253/1/CWUSB132	**4**	**18-04-2024**	**256**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001157		Acceptable				29-04-2024		
4/90253/1/CWUSB132	**4**	**18-04-2024**	**256**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001158		Acceptable				29-04-2024		
6/90253/1/CWUSB132	**4**	**18-04-2024**	**256**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001159		Acceptable				29-04-2024		
1/90253/1/CWUSB133	**4**	**07-05-2024**	**278**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001185		Acceptable				09-05-2024		
3/90253/1/CWUSB133	**4**	**07-05-2024**	**278**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90253/1/CWUSB133	**4**	**07-05-2024**	**278**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001184		Acceptable				09-05-2024		
6/90253/1/CWUSB133	**4**	**07-05-2024**	**278**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB134	**4**	**08-04-2024**	**201**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000835		Acceptable				11-04-2024		
7/90253/1/CWUSB134	**4**	**08-04-2024**	**201**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000836		Acceptable				11-04-2024		
1/90253/1/CWUSB136	**4**	**29-03-2024**	**179**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000818		Acceptable				10-04-2024		
10/90253/1/CWUSB136	**4**	**29-03-2024**	**179**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000819		Acceptable				10-04-2024		
1/90253/1/CWUSB149	**4**	**12-04-2024**	**217**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000954		Acceptable				18-04-2024		
5/90253/1/CWUSB149	**4**	**12-04-2024**	**217**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000964		Acceptable				18-04-2024		
1/90253/1/CWUSB150	**4**	**12-04-2024**	**217**	**AX73**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	001007		Acceptable				19-04-2024		
5/90253/1/CWUSB150	**4**	**12-04-2024**	**217**	**AX73**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	001006		Acceptable				19-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB173		**4**	**15-04-2024**	**269**	**AX73**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001189		Acceptable				09-05-2024		
deleted for revision drawing																
3/90253/1/CWUSB173		**4**	**15-04-2024**	**269**	**AX73**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001190		Acceptable				09-05-2024		
deleted for revision drawing																
4/90253/1/CWUSB173		**4**	**15-04-2024**	**269**	**AX73**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001191		Acceptable				09-05-2024		
deleted for revision drawing																
6/90253/1/CWUSB173		**4**	**15-04-2024**	**269**	**AX73**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001192		Acceptable				09-05-2024		
deleted for revision drawing																
1/90253/1/CWUSB174		**4**	**15-04-2024**	**220**	**AX394**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000946		Acceptable				17-04-2024		
deleted for revision drawing																
3/90253/1/CWUSB174		**4**	**15-04-2024**	**220**	**AX394**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000956		Acceptable				18-04-2024		
deleted for revision drawing																
4/90253/1/CWUSB174		**4**	**15-04-2024**	**220**	**AX394**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000957		Acceptable				18-04-2024		
deleted for revision drawing																
6/90253/1/CWUSB174		**4**	**15-04-2024**	**220**	**AX394**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000998		Acceptable				18-04-2024		
deleted for revision drawing																

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90253/1/CWUSB177	**4**	**17-04-2024**	**255**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001151		Acceptable				29-04-2024		
5/90253/1/CWUSB177	**4**	**17-04-2024**	**255**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001152		Acceptable				29-04-2024		
1/90253/1/CWUSB187	**4**	**16-04-2024**	**222**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001054		Acceptable				22-04-2024		
3/90253/1/CWUSB187	**4**	**16-04-2024**	**222**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001055		Acceptable				22-04-2024		
4/90253/1/CWUSB187	**4**	**16-04-2024**	**222**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001056		Acceptable				22-04-2024		
6/90253/1/CWUSB187	**4**	**16-04-2024**	**222**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001050		Acceptable				22-04-2024		

Totals per DWG	**90253**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**28,50 m**	**95 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**28,50 m**	**95 Nr. Welds**
		Accepted	**28,50 m**	**95 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90254/1/CWUSB135	**0**	**09-04-2024**	**213**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000903		Acceptable				15-04-2024			
7/90254/1/CWUSB135	**0**	**09-04-2024**	**213**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000918		Acceptable				16-04-2024			
1/90254/1/CWUSB137	**0**	**09-04-2024**	**213**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000919		Acceptable				16-04-2024			
7/90254/1/CWUSB137	**0**	**09-04-2024**	**213**	**AX84**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000920		Acceptable				16-04-2024			
1/90254/1/CWUSB151	**0**	**08-04-2024**	**194**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000913		Acceptable				16-04-2024			
7/90254/1/CWUSB151	**0**	**16-04-2024**	**252**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001126		Acceptable				27-04-2024			
1/90254/1/CWUSB152	**0**	**10-04-2024**	**210**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000965		Acceptable				18-04-2024			
7/90254/1/CWUSB152	**0**	**08-04-2024**	**194**	**AX73**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000914		Acceptable				16-04-2024			

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90254/1/CWUSB153	**0**	**16-04-2024**	**252**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001125		Acceptable				27-04-2024		
10/90254/1/CWUSB153	**0**	**09-04-2024**	**197**	**AX394**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000915		Acceptable				16-04-2024		
1/90254/1/CWUSB154	**0**	**08-04-2024**	**194**	**AX73**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000912		Acceptable				16-04-2024		
7/90254/1/CWUSB154	**0**	**09-04-2024**	**197**	**AX73**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000916		Acceptable				16-04-2024		

Totals per DWG	**90254**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**3,60 m**	**12 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,60 m**	**12 Nr. Welds**
		Accepted	**3,60 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90255/1/CWUSB155	**1**	**16-04-2024**	**252**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001127		Acceptable				27-04-2024		
7/90255/1/CWUSB155	**1**	**09-04-2024**	**197**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000917		Acceptable				16-04-2024		
1/90255/1/CWUSB156	**1**	**10-04-2024**	**210**	**AX425**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001128		Acceptable				19-04-2024		
7/90255/1/CWUSB156	**1**	**11-04-2024**	**216**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	001013		Acceptable				19-04-2024		
1/90255/1/CWUSB183	**1**	**11-04-2024**	**216**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**22-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	001397		Acceptable				22-04-2024		
10/90255/1/CWUSB183	**1**	**11-04-2024**	**216**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	50 %	001011		Acceptable				19-04-2024		
12/90255/1/CWUSB183	**1**	**11-04-2024**	**216**	**AX25**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	50 %	001012		Acceptable				19-04-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90255/1/CWUSB184		**1**	**10-04-2024**	**210**	**AX425**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000966		Acceptable				18-04-2024		
10/90255/1/CWUSB184		**1**	**10-04-2024**	**210**	**AX425**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-04-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
12/90255/1/CWUSB184		**1**	**10-04-2024**	**210**	**AX425**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	000878		Acceptable				15-04-2024		
1/90255/1/CWUSB185		**1**	**11-04-2024**	**216**	**AX73**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	100 %	001010		Acceptable				19-04-2024		
10/90255/1/CWUSB185		**1**	**11-04-2024**	**216**	**AX73**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	50 %	001008		Acceptable				19-04-2024		
12/90255/1/CWUSB185		**1**	**11-04-2024**	**216**	**AX73**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**19-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RS	50 %	001009		Acceptable				19-04-2024		
1/90255/1/CWUSB186		**1**	**12-04-2024**	**217**	**AX394**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	000962		Acceptable				18-04-2024		
10/90255/1/CWUSB186		**1**	**12-04-2024**	**217**	**AX394**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	000963		Acceptable				18-04-2024		
12/90255/1/CWUSB186		**1**	**12-04-2024**	**217**	**AX394**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**18-04-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	000955		Acceptable				18-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90255/1/CWUSB188	**1**	**08-05-2024**	**282**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001282		Acceptable				15-05-2024		
5/90255/1/CWUSB188	**1**	**08-05-2024**	**282**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001283		Acceptable				15-05-2024		
7/90255/1/CWUSB188	**1**	**08-05-2024**	**282**	**AX90**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001284		Acceptable				15-05-2024		
1/90255/1/CWUSB189	**1**	**08-05-2024**	**282**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001285		Acceptable				15-05-2024		
5/90255/1/CWUSB189	**1**	**08-05-2024**	**282**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001286		Acceptable				15-05-2024		
7/90255/1/CWUSB189	**1**	**08-05-2024**	**282**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001287		Acceptable				15-05-2024		
1/90255/1/CWUSB190	**1**	**10-05-2024**	**280**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001289		Acceptable				15-05-2024		
3/90255/1/CWUSB190	**1**	**10-05-2024**	**280**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001290		Acceptable				15-05-2024		
4/90255/1/CWUSB190	**1**	**10-05-2024**	**280**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001291		Acceptable				15-05-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90255/1/CWUSB191		**1**	**10-05-2024**	**280**	**AX90**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	001292		Acceptable				15-05-2024		
3/90255/1/CWUSB191		**1**	**10-05-2024**	**280**	**AX90**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	001293		Acceptable				15-05-2024		
4/90255/1/CWUSB191		**1**	**10-05-2024**	**280**	**AX90**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	50 %	001294		Acceptable				15-05-2024		

Totals per DWG	**90255**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**8,40 m**	**28 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,40 m**	**28 Nr. Welds**
		Accepted	**8,40 m**	**28 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90284/1/CWLG002		**0**	**21-08-2024**	**384**	**AX73**			**PIPE**	**271,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-08-2024**
					AX416													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002243		Acceptable				22-08-2024			
2/90284/1/CWLG002		**0**	**07-02-2024**	**31**	**AX394**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000206		Acceptable				19-02-2024			
1/90284/1/CWLG004		**0**	**21-08-2024**	**389**	**AX63**			**PIPE**	**271,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	100 %	002251		Acceptable				23-08-2024			
2/90284/1/CWLG004		**0**	**16-03-2024**	**158**	**AX73**			**PIPE**	**271,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000666		Acceptable				21-03-2024			
1/90284/1/CWLG009		**0**	**20-08-2024**	**383**	**AX414**			**PIPE**	**323,90 mm**	**19,05 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	002261		Acceptable				26-08-2024			
2/90284/1/CWLG009		**0**	**07-02-2024**	**31-51**	**AX394**			**PIPE**	**323,90 mm**	**19,05 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-02-2024**
					AX426	**After Cutting**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	000207		Acceptable				19-02-2024			
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0222 02	MM	100 %	000294		Acceptable				26-02-2024			
1/90284/1/CWLG010		**0**	**13-08-2024**	**380**	**AX411**			**PIPE**	**323,90 mm**	**19,05 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	002238		Acceptable				22-08-2024			
2/90284/1/CWLG010		**0**	**16-03-2024**	**158**	**AX84**			**PIPE**	**323,90 mm**	**19,05 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	000665		Acceptable				21-03-2024			

Totals per DWG	**90284**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**7,52 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,52 m**	**8 Nr. Welds**
		Accepted	**7,52 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn / Accept. Date
1/90285/1/CWBR011		**0**	**21-08-2024**	**384**	**AX73** **AX416**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,486 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002244		Acceptable				22-08-2024		
2/90285/1/CWBR011		**0**	**29-02-2024**	**79**	**AX393**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,373 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY** **06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000714		Acceptable				01-03-2024		
1/90285/1/CWBR012		**0**	**21-08-2024**	**384**	**AX73** **AX416**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,486 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002245		Acceptable				22-08-2024		
2/90285/1/CWBR012		**0**	**29-02-2024**	**79**	**AX84**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,373 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY** **06-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000715		Acceptable				01-03-2024		
1/90285/1/CWLG005		**0**	**20-08-2024**	**383**	**AX25**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **26-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002259		Acceptable				26-08-2024		
2/90285/1/CWLG005		**0**	**20-02-2024**	**35**	**AX416**			**PIPE**	**406,40 mm**	**12,70 mm**	**V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW** **28-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000228		Acceptable				22-02-2024		
1/90285/1/CWLG006		**0**	**20-08-2024**	**386**	**AX63**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002247		Acceptable				22-08-2024		
2/90285/1/CWLG006		**0**	**20-02-2024**	**35**	**AX416**			**PIPE**	**406,40 mm**	**12,70 mm**	**V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW** **28-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000229		Acceptable				22-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90285/1/CWLG017		**0**	**20-02-2024**	**35**	**AX25**		**PIPE**	**406,40 mm**	**21,40 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	MM	100 %	000230		Acceptable					22-02-2024		
1/90285/1/CWLG018		**0**	**20-02-2024**	**35**	**AX73**		**PIPE**	**406,40 mm**	**21,40 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-02-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	MM	100 %	000231		Acceptable					22-02-2024		

Totals per DWG	**90285**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**13,40 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,40 m**	**10 Nr. Welds**
		Accepted	**13,40 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90286/1/CWBR015		**0**	**22-08-2024**	**388**	**AX414**			**PIPE**		**600,00 mm**	**20,00 mm**	**1/2V**	**2,334 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU		100 %	002262		Acceptable				26-08-2024			
2/90286/1/CWBR015		**0**	**04-03-2024**	**85**	**AX25** **AX73**			**PIPE**		**600,00 mm**	**20,00 mm**	**1/2V**	**2,383 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM		100 %	000423		Acceptable				05-03-2024			
1/90286/1/CWBR025		**0**	**20-08-2024**	**382**	**AX414**			**PIPE**		**600,00 mm**	**20,00 mm**	**1/2V**	**2,334 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP		100 %	002249		Acceptable				23-08-2024			
2/90286/1/CWBR025		**0**	**04-03-2024**	**85**	**AX393** **AX84**			**PIPE**		**600,00 mm**	**20,00 mm**	**1/2V**	**2,368 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM		100 %	000424		Acceptable				05-03-2024			
1/90286/1/CWLG011		**0**	**12-08-2024**	**378**	**AX416**			**PIPE**		**800,00 mm**	**20,00 mm**	**V**	**2,540 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU		100 %	002209		Acceptable				19-08-2024			
2/90286/1/CWLG011		**0**	**17-02-2024**	**33**	**AX84** **AX416**			**PIPE**		**800,00 mm**	**20,00 mm**	**V**	**2,544 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000201		Acceptable				20-02-2024			
1/90286/1/CWLG013		**0**	**16-08-2024**	**381**	**AX416**			**PIPE**		**800,00 mm**	**20,00 mm**	**V**	**2,540 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**20-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU		100 %	002208		Acceptable				20-08-2024			
	RT not executable																		
2/90286/1/CWLG013		**0**	**17-02-2024**	**33**	**AX84** **AX416**			**PIPE**		**800,00 mm**	**20,00 mm**	**V**	**2,540 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**28-02-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM		100 %	000202		Acceptable				20-02-2024			

Totals per DWG	**90286**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**19,57 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**19,57 m**	**8 Nr. Welds**
		Accepted	**19,57 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90287/1/CWLG001		**0**	**07-11-2024**	**460**	**AX84**		**PIPE**	**271,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-11-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	002447		Acceptable				12-11-2024		
2/90287/1/CWLG001		**0**	**09-11-2024**	**461**	**AX63**		**PIPE**	**271,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-11-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	002448		Acceptable				12-11-2024		
1/90287/1/CWLG003		**0**	**22-08-2024**	**391**	**AX25**		**PIPE**	**271,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-08-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	BLU	100 %	002260		Acceptable				26-08-2024		
2/90287/1/CWLG003		**0**	**27-06-2024**	**355**	**AX393**		**PIPE**	**271,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	100 %	001678		Acceptable				04-07-2024		

Totals per DWG	**90287**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,44 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,44 m**	**4 Nr. Welds**
		Accepted	**3,44 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Examination phase	Prod. Date	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90288/1/CWBR016		**0**		**20-08-2024**	**382**	**AX411**			**PIPE**	**600,00 mm**	**20,00 mm**	**1/2V**	**2,334 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		BLU	100 %	002239		Acceptable				22-08-2024			
2/90288/1/CWBR016		**0**		**18-03-2024**	**157**	**AX394**			**PIPE**	**600,00 mm**	**20,00 mm**	**1/2V**	**2,383 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2024**
						AX238													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		MM	100 %	000650		Acceptable				20-03-2024			
1/90288/1/CWBR026		**0**		**21-08-2024**	**385**	**AX411**			**PIPE**	**600,00 mm**	**20,00 mm**	**1/2V**	**2,334 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		BLU	100 %	002240		Acceptable				22-08-2024			
2/90288/1/CWBR026		**0**		**18-03-2024**	**157**	**AX393**			**PIPE**	**600,00 mm**	**20,00 mm**	**1/2V**	**2,372 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		MM	100 %	000651		Acceptable				20-03-2024			
1/90288/1/CWLG012		**0**		**12-08-2024**	**376**	**AX414**			**PIPE**	**800,00 mm**	**20,00 mm**	**V**	**2,540 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**19-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03		BLU	100 %	002210		Acceptable				19-08-2024			
	RT not executable																		
2/90288/1/CWLG012		**0**		**13-03-2024**	**133**	**AX84**			**PIPE**	**800,00 mm**	**20,00 mm**	**V**	**2,542 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**25-03-2024**
						AX416													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03		MM	100 %	000629		Acceptable				15-03-2024			
1/90288/1/CWLG014		**0**		**10-08-2024**	**377-426**	**AX411**			**PIPE**	**800,00 mm**	**20,00 mm**	**V**	**2,532 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**02-10-2024**
						AX416	**Welding + Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03		BLU	100 %	002211		Acceptable				19-08-2024			
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03		MM	100 %	002355		Acceptable				25-09-2024			
2/90288/1/CWLG014		**0**		**15-03-2024**	**141**	**AX84**			**PIPE**	**800,00 mm**	**20,00 mm**	**V**	**2,532 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**25-03-2024**
						AX416													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		MM	100 %	000628		Acceptable				18-03-2024			

Totals per DWG	**90288**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**19,55 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**19,55 m**	**8 Nr. Welds**
		Accepted	**19,55 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90289/1/CWBR013		**0**	**21-08-2024**	**389**	**AX90**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,486 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	100 %	002252		Acceptable					23-08-2024		
2/90289/1/CWBR013		**0**	**20-03-2024**	**161**	**AX73**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,373 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**21-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000667		Acceptable					21-03-2024		
1/90289/1/CWBR014		**0**	**21-08-2024**	**389**	**AX90**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,486 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	100 %	002253		Acceptable					23-08-2024		
2/90289/1/CWBR014		**0**	**20-03-2024**	**161**	**AX393**			**PIPE**	**355,60 mm**	**12,70 mm**	**1/2V**	**1,373 m**	**M**	**C.S.**	**2A**	**FCAW**	**TKY**	**21-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	000668		Acceptable					21-03-2024		
1/90289/1/CWLG007		**0**	**21-08-2024**	**389**	**AX63**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	100 %	002254		Acceptable					23-08-2024		
2/90289/1/CWLG007		**0**	**14-02-2024**	**49**	**AX416**			**PIPE**	**406,40 mm**	**12,70 mm**	**V**	**1,276 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**29-02-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90289/1/CWLG008		**0**	**21-08-2024**	**385**	**AX84**			**PIPE**	**406,40 mm**	**12,70 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	100 %	002242		Acceptable					22-08-2024		
2/90289/1/CWLG008		**0**	**14-02-2024**	**49**	**AX416**			**PIPE**	**406,40 mm**	**12,70 mm**	**V**	**1,276 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**29-02-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000309		Acceptable					28-02-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90289/1/CWLG015		**0**	**13-03-2024**	**132**	**AX90**		**PIPE**	**406,40 mm**	**21,40 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	MM	100 %	000635		Acceptable					18-03-2024		
1/90289/1/CWLG016		**0**	**13-03-2024**	**132**	**AX25**		**PIPE**	**406,40 mm**	**21,40 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-03-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	MM	100 %	000636		Acceptable					18-03-2024		

Totals per DWG	**90289**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**13,40 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,40 m**	**10 Nr. Welds**
		Accepted	**13,40 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.		Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
3/90313/1/CWUTB001	**4**	**29-03-2024**	**179**	**AX394**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-04-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
5/90313/1/CWUTB001	**4**	**29-03-2024**	**179**	**AX394**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-04-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
3/90313/1/CWUTB005	**4**	**03-04-2024**	**207**	**AX90**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000864			Acceptable					13-04-2024		
5/90313/1/CWUTB005	**4**	**03-04-2024**	**207**	**AX90**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-04-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
3/90313/1/CWUTB006	**4**	**29-03-2024**	**179**	**AX394**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-04-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
5/90313/1/CWUTB006	**4**	**29-03-2024**	**179**	**AX394**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-04-2024**
III	UT	FIN	Weld Completion				50 %				Acceptable							
1/90313/1/CWUTB033	**4**	**27-02-2024**	**205**	**AX426**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000866			Acceptable					13-04-2024		
3/90313/1/CWUTB033	**4**	**27-02-2024**	**205**	**AX426**			**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000867			Acceptable					13-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90313/1/CWUTB034		**4**	**11-04-2024**	**347**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90313/1/CWUTB034		**4**	**11-04-2024**	**347**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90313/1/CWUTB035		**4**	**06-05-2024**	**343**	**AX410**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001524		Acceptable				13-06-2024			
5/90313/1/CWUTB035		**4**	**06-05-2024**	**343**	**AX410**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001525		Acceptable				13-06-2024			
3/90313/1/CWUTB100		**4**	**29-03-2024**	**351**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001519		Acceptable				13-06-2024			
5/90313/1/CWUTB100		**4**	**29-03-2024**	**351**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001520		Acceptable				13-06-2024			
3/90313/1/CWUTB101		**4**	**29-03-2024**	**351**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90313/1/CWUTB101		**4**	**29-03-2024**	**351**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001521		Acceptable				13-06-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90313/1/CWUTB179	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001070		Acceptable				23-04-2024		
Deleted for revision drawing																
3/90313/1/CWUTB179	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001071		Acceptable				23-04-2024		
Deleted for revision drawing																
4/90313/1/CWUTB179	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001072		Acceptable				23-04-2024		
Deleted for revision drawing																
6/90313/1/CWUTB179	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001073		Acceptable				23-04-2024		
Deleted for revision drawing																
1/90313/1/CWUTB180	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001074		Acceptable				23-04-2024		
3/90313/1/CWUTB180	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001075		Acceptable				23-04-2024		
4/90313/1/CWUTB180	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90313/1/CWUTB180	**4**	**16-04-2024**	**222**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90313/1/CWUTB181		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001076		Acceptable					23-04-2024		
3/90313/1/CWUTB181		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001077		Acceptable					23-04-2024		
4/90313/1/CWUTB181		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001078		Acceptable					23-04-2024		
6/90313/1/CWUTB181		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001079		Acceptable					23-04-2024		
1/90313/1/CWUTB182		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001080		Acceptable					23-04-2024		
3/90313/1/CWUTB182		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001081		Acceptable					23-04-2024		
4/90313/1/CWUTB182		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90313/1/CWUTB182		**4**	**16-04-2024**	**222**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001082		Acceptable					23-04-2024		

Totals per DWG	**90313**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,84 m**	**32 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,84 m**	**32 Nr. Welds**
		Accepted	**3,84 m**	**32 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90314/1/CWUTB096	**2**	**03-04-2024**	**207**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000865		Acceptable				13-04-2024		
3/90314/1/CWUTB097	**2**	**08-04-2024**	**194**	**AX25**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001205		Acceptable				09-05-2024		
1/90314/1/CWUTB098	**2**	**27-03-2024**	**202**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000871		Acceptable				13-04-2024		
3/90314/1/CWUTB099	**2**	**26-03-2024**	**203**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000869		Acceptable				13-04-2024		
1/90314/1/CWUTB102	**2**	**28-03-2024**	**178**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000782		Acceptable				08-04-2024		
3/90314/1/CWUTB103	**2**	**10-04-2024**	**209**	**AX73**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,041 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001085		Acceptable				23-04-2024		
3/90314/1/CWUTB104	**2**	**26-03-2024**	**203**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000870		Acceptable				13-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90314/1/CWUTB105	**2**	**10-04-2024**	**209**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,041 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001086		Acceptable				23-04-2024		
1/90314/1/CWUTB106	**2**	**09-04-2024**	**208**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,041 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000921		Acceptable				16-04-2024		
3/90314/1/CWUTB107	**2**	**26-03-2024**	**181**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,041 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000872		Acceptable				13-04-2024		
3/90314/1/CWUTB108	**2**	**10-04-2024**	**209**	**AX73**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000932		Acceptable				17-04-2024		
1/90314/1/CWUTB109	**2**	**25-03-2024**	**204**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000868		Acceptable				13-04-2024		
1/90314/1/CWUTB149	**2**	**15-04-2024**	**345**	**AX394**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001523		Acceptable				13-06-2024		
Deleted for revision drawing																
1/90314/1/CWUTB150	**2**	**09-04-2024**	**225**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001036		Acceptable				20-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90314/1/CWUTB151		**2**	**17-04-2024**	**249**	**AX431**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001134		Acceptable				29-04-2024		
1/90314/1/CWUTB152		**2**	**09-04-2024**	**225**	**AX425**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001037		Acceptable				20-04-2024		
1/90314/1/CWUTB171		**2**	**09-04-2024**	**225**	**AX425**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001038		Acceptable				20-04-2024		
3/90314/1/CWUTB172		**2**	**12-04-2024**	**346**	**AX25**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001522		Acceptable				13-06-2024		

Totals per DWG	**90314**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**1,80 m**	**18 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,80 m**	**18 Nr. Welds**
		Accepted	**1,80 m**	**18 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90315/1/CWUTB153	**4**	**19-04-2024**	**235**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001130		Acceptable				29-04-2024		
1/90315/1/CWUTB154	**4**	**10-04-2024**	**224**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001033		Acceptable				20-04-2024		
3/90315/1/CWUTB155	**4**	**19-04-2024**	**235**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001131		Acceptable				29-04-2024		
1/90315/1/CWUTB156	**4**	**10-04-2024**	**224**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001034		Acceptable				20-04-2024		
3/90315/1/CWUTB157	**4**	**18-04-2024**	**237**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001133		Acceptable				29-04-2024		
1/90315/1/CWUTB158	**4**	**10-04-2024**	**224**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001035		Acceptable				20-04-2024		
3/90315/1/CWUTB159	**4**	**19-04-2024**	**235**	**AX431**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-04-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001132		Acceptable				29-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90315/1/CWUTB185		**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	001288		Acceptable					15-05-2024		
3/90315/1/CWUTB185		**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001398		Acceptable					23-05-2024		
1/90315/1/CWUTB186		**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001399		Acceptable					23-05-2024		
3/90315/1/CWUTB186		**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001400		Acceptable					23-05-2024		
4/90315/1/CWUTB186		**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90315/1/CWUTB187		**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001266		Acceptable					15-05-2024		
3/90315/1/CWUTB187		**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001267		Acceptable					15-05-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90315/1/CWUTB188	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001268		Acceptable				15-05-2024		
3/90315/1/CWUTB188	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001269		Acceptable				15-05-2024		
1/90315/1/CWUTB189	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	001270		Acceptable				15-05-2024		
4/90315/1/CWUTB189	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001271		Acceptable				15-05-2024		
6/90315/1/CWUTB189	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001272		Acceptable				15-05-2024		
1/90315/1/CWUTB190	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001273		Acceptable				15-05-2024		
deleted for revision drawing																
3/90315/1/CWUTB190	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001274		Acceptable				15-05-2024		
deleted for revision drawing																
5/90315/1/CWUTB190	**4**	**08-05-2024**	**282**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	001275		Acceptable				15-05-2024		
deleted for revision drawing																

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90315/1/CWUTB191		**4**	**01-07-2024**	**359**	**AX409**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90315/1/CWUTB191		**4**	**01-07-2024**	**359**	**AX409**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90315/1/CWUTB191		**4**	**01-07-2024**	**359**	**AX409**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90315/1/CWUTB191		**4**	**01-07-2024**	**359**	**AX409**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90315/1/CWUTB192		**4**	**01-07-2024**	**359**	**AX411**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90315/1/CWUTB192		**4**	**01-07-2024**	**359**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90315/1/CWUTB192		**4**	**01-07-2024**	**359**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90315/1/CWUTB192		**4**	**01-07-2024**	**359**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90315**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,60 m**	**30 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,60 m**	**30 Nr. Welds**
		Accepted	**3,60 m**	**30 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

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Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90353/1/CWULT001		**1**	**22-05-2024**	**17**	**DM07 DM09**			**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001417		Acceptable					27-05-2024		
2/90353/1/CWULT001		**1**	**30-05-2024**	**24-44**	**DM22**	**Welding + Repair done**		**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001429		Acceptable					31-05-2024		
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	GMA	100 %	001590		Acceptable					25-06-2024		
3/90353/1/CWULT001		**1**	**22-05-2024**	**17**	**DM07 DM09**			**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BLU	100 %	001422		Acceptable					24-05-2024		
4/90353/1/CWULT001		**1**	**30-05-2024**	**24-44**	**DM22**	**Welding + Repair done**		**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001430		Acceptable					31-05-2024		
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	GMA	100 %	001591		Acceptable					25-06-2024		
6/90353/1/CWULT001		**1**	**08-05-2024**	**12**	**DM09**			**PL**	**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	001299		Acceptable					15-05-2024		
7/90353/1/CWULT001		**1**	**14-05-2024**	**14**	**DM07**			**PL**	**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	001328		Acceptable					16-05-2024		
8/90353/1/CWULT001		**1**	**22-05-2024**	**23**	**DM07 DM09**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002204		Acceptable					29-05-2024		
9/90353/1/CWULT001		**1**	**22-05-2024**	**23**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002205		Acceptable					29-05-2024		
10/90353/1/CWULT001		**1**	**22-05-2024**	**23**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002206		Acceptable					29-05-2024		
11/90353/1/CWULT001		**1**	**22-05-2024**	**23**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002207		Acceptable					29-05-2024		
12/90353/1/CWULT001		**1**	**24-05-2024**	**19**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date
12/90353/1/CWULT001		**1**	**24-05-2024**	**19**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002191		Acceptable				27-05-2024			
13/90353/1/CWULT001		**1**	**24-05-2024**	**19**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002192		Acceptable				27-05-2024			
14/90353/1/CWULT001		**1**	**24-05-2024**	**19**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002193		Acceptable				27-05-2024			
15/90353/1/CWULT001		**1**	**24-05-2024**	**19**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002194		Acceptable				27-05-2024			
22/90353/1/CWULT001		**1**	**17-04-2024**	**2**	**SID_E**			**PIPE**	**820,00 mm**	**40,00 mm**	**X**	**1,109 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001166		Acceptable				19-04-2024			
23/90353/1/CWULT001		**1**	**17-04-2024**	**1**	**SID_CW**			**PIPE**	**700,00 mm**	**35,00 mm**	**X**	**0,333 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001170		Acceptable				19-04-2024			
24/90353/1/CWULT001		**1**	**17-04-2024**	**1**	**SID_CW**			**PIPE**	**700,00 mm**	**35,00 mm**	**X**	**0,333 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001174		Acceptable				19-04-2024			
1/90353/1/CWULT002		**1**	**23-05-2024**	**16**	**DM07** **DM09**			**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BLU	100 %	001421		Acceptable				24-05-2024			
2/90353/1/CWULT002		**1**	**31-05-2024**	**25-26-44**	**DM09** **DM07**	**After Cutting**		**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001432		Acceptable				01-06-2024			
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	GMA	100 %	001592		Acceptable				25-06-2024			
3/90353/1/CWULT002		**1**	**23-05-2024**	**16**	**DM07** **DM09**			**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001418		Acceptable				27-05-2024			
4/90353/1/CWULT002		**1**	**30-05-2024**	**25-44**	**DM07**	**Welding + Repair done**		**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-06-2024**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Conn / NOTE	Accept. Date
4/90353/1/CWULT002		**1**	**30-05-2024**	**25-44**	**DM07**	**Welding + Repair done**		**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001431		Acceptable				31-05-2024			
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	GMA	100 %	001593		Acceptable				25-06-2024			
6/90353/1/CWULT002		**1**	**10-05-2024**	**13**	**DM07**			**PL**	**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	001298		Acceptable				15-05-2024			
7/90353/1/CWULT002		**1**	**18-05-2024**	**15**	**DM22**			**PL**	**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	100 %	001393		Acceptable				22-05-2024			
8/90353/1/CWULT002		**1**	**27-05-2024**	**21**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002196		Acceptable				29-05-2024			
9/90353/1/CWULT002		**1**	**27-05-2024**	**21**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002197		Acceptable				29-05-2024			
10/90353/1/CWULT002		**1**	**27-05-2024**	**21**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002198		Acceptable				29-05-2024			
11/90353/1/CWULT002		**1**	**27-05-2024**	**21**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002199		Acceptable				29-05-2024			
12/90353/1/CWULT002		**1**	**27-05-2024**	**21**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002200		Acceptable				29-05-2024			
13/90353/1/CWULT002		**1**	**27-05-2024**	**21**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002201		Acceptable				29-05-2024			
14/90353/1/CWULT002		**1**	**25-05-2024**	**21**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002202		Acceptable				29-05-2024			
15/90353/1/CWULT002		**1**	**25-05-2024**	**21**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002203		Acceptable				29-05-2024			
22/90353/1/CWULT002		**1**	**17-04-2024**	**2**	**SID_E**			**PIPE**	**820,00 mm**	**40,00 mm**	**X**	**1,109 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**22-04-2024**

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Client CRWIND CROSSWIND
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Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
22/90353/1/CWULT002		**1**	**17-04-2024**	**2**	**SID_E**			**PIPE**		**820,00 mm**	**40,00 mm**	**X**	**1,109 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID		100 %	001167		Acceptable				19-04-2024			
23/90353/1/CWULT002		**1**	**17-04-2024**	**1**	**SID_CW**			**PIPE**		**700,00 mm**	**35,00 mm**	**X**	**0,333 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID		100 %	001171		Acceptable				19-04-2024			
24/90353/1/CWULT002		**1**	**17-04-2024**	**1**	**SID_CW**			**PIPE**		**700,00 mm**	**35,00 mm**	**X**	**0,333 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID		100 %	001175		Acceptable				19-04-2024			
1/90353/1/CWULT003		**1**	**30-05-2024**	**29**	**DM09**			**PIPE**		**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS		100 %	001454		Acceptable				04-06-2024			
2/90353/1/CWULT003		**1**	**07-06-2024**	**36-43**	**DM22**			**PIPE**		**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-07-2024**
					DM09	**After Cutting**													
	I	UT	FIN	Weld Completion					100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	GMA		100 %	002236		Acceptable				01-07-2024			
3/90353/1/CWULT003		**1**	**31-05-2024**	**28**	**DM07**			**PIPE**		**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS		100 %	001455		Acceptable				04-06-2024			
4/90353/1/CWULT003		**1**	**07-06-2024**	**36-43**	**DM22**			**PIPE**		**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-07-2024**
					DM09	**After Cutting**													
	I	UT	FIN	Weld Completion					100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	GMA		100 %	002237		Acceptable				01-07-2024			
6/90353/1/CWULT003		**1**	**18-05-2024**	**15**	**DM07**			**PL**		**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN		100 %	001394		Acceptable				22-05-2024			
7/90353/1/CWULT003		**1**	**23-05-2024**	**16**	**DM22**			**PL**		**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS		100 %	001419		Acceptable				27-05-2024			
8/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**		**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS		100 %	001502		Acceptable				17-06-2024			
9/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**		**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
9/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001503		Acceptable					17-06-2024		
10/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001504		Acceptable					17-06-2024		
11/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001505		Acceptable					17-06-2024		
12/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001506		Acceptable					17-06-2024		
13/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001507		Acceptable					17-06-2024		
14/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001508		Acceptable					17-06-2024		
15/90353/1/CWULT003		**1**	**04-06-2024**	**35**	**DM07**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001509		Acceptable					17-06-2024		
22/90353/1/CWULT003		**1**	**17-04-2024**	**2**	**SID_E**			**PIPE**	**820,00 mm**	**40,00 mm**	**X**	**1,109 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001168		Acceptable					19-04-2024		
23/90353/1/CWULT003		**1**	**17-04-2024**	**1**	**SID_C**			**PIPE**	**700,00 mm**	**35,00 mm**	**X**	**0,334 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001172		Acceptable					19-04-2024		
24/90353/1/CWULT003		**1**	**17-04-2024**	**1**	**SID_C**			**PIPE**	**700,00 mm**	**35,00 mm**	**X**	**0,333 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001176		Acceptable					19-04-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90353/1/CWULT004		**1**	**29-05-2024**	**30**	**DM07**			**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001452		Acceptable					04-06-2024		
2/90353/1/CWULT004		**1**	**07-06-2024**	**36-43**	**DM07**			**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-07-2024**
					DM22	**After Cutting**												
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	RS	100 %	001642		Acceptable					02-07-2024		
3/90353/1/CWULT004		**1**	**29-05-2024**	**30**	**DM09**			**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**4,524 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	RS	100 %	001453		Acceptable					04-06-2024		
4/90353/1/CWULT004		**1**	**07-06-2024**	**36-43**	**DM07**	**Welding + Repair done**		**PIPE**	**700,00 mm**	**35,00 mm**	**1/2V**	**2,268 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-07-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	C 1 DTA	After Cutting		IDL-QCI-UT 0224 03	RS	100 %	001643		Acceptable					02-07-2024		
6/90353/1/CWULT004		**1**	**23-05-2024**	**16**	**DM22**			**PL**	**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	100 %	001420		Acceptable					24-05-2024		
7/90353/1/CWULT004		**1**	**24-05-2024**	**19**	**DM07**			**PL**	**740,00 mm**	**25,00 mm**	**1/2V**	**2,320 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-05-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	002195		Acceptable					27-05-2024		
8/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001510		Acceptable					17-06-2024		
9/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001511		Acceptable					17-06-2024		
10/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001512		Acceptable					17-06-2024		
11/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001513		Acceptable					17-06-2024		
12/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001514		Acceptable					17-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
12/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001515		Acceptable					17-06-2024		
13/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001516		Acceptable					17-06-2024		
14/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,962 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	100 %	001517		Acceptable					17-06-2024		
15/90353/1/CWULT004		**1**	**04-06-2024**	**35**	**DM22**			**PL**	**299,50 mm**	**25,00 mm**	**1/2V**	**0,590 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001169		Acceptable					19-04-2024		
22/90353/1/CWULT004		**1**	**17-04-2024**	**2**	**SID_CW**			**PIPE**	**820,00 mm**	**40,00 mm**	**X**	**1,110 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**22-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001173		Acceptable					19-04-2024		
23/90353/1/CWULT004		**1**	**17-04-2024**	**1**	**SID_C**			**PIPE**	**700,00 mm**	**35,00 mm**	**X**	**0,330 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001177		Acceptable					19-04-2024		
24/90353/1/CWULT004		**1**	**17-04-2024**	**1**	**SID_C**			**PIPE**	**700,00 mm**	**35,00 mm**	**X**	**0,333 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**19-04-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RID	100 %	001177		Acceptable					19-04-2024		

Totals per DWG	**90353**			
		Prefabrication	**104,76 m**	**68 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**104,76 m**	**68 Nr. Welds**
		Accepted	**104,76 m**	**68 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90383/1/CWLTB216	**1**	**07-03-2024**	**130**	**AX411**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90383/1/CWLTB216	**1**	**07-03-2024**	**130**	**AX411**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90383/1/CWLTB217	**1**	**07-03-2024**	**130**	**AX411**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90383/1/CWLTB217	**1**	**07-03-2024**	**130**	**AX411**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB218	**1**	**04-03-2024**	**127**	**AX427**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB218	**1**	**04-03-2024**	**127**	**AX427**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90383/1/CWLTB218	**1**	**04-03-2024**	**127**	**AX427**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90383/1/CWLTB218	**1**	**04-03-2024**	**127**	**AX427**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90383/1/CWLTB219	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB219	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90383/1/CWLTB219	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90383/1/CWLTB219	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB220	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB220	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90383/1/CWLTB220	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90383/1/CWLTB221	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB221	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90383/1/CWLTB221	**1**	**04-03-2024**	**127**	**AX427**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB222	**1**	**07-03-2024**	**130**	**AX411**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB222	**1**	**07-03-2024**	**130**	**AX411**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB223	**1**	**07-03-2024**	**130**	**AX411**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB223	**1**	**07-03-2024**	**130**	**AX411**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90383/1/CWLTB224	**1**	**05-03-2024**	**128**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB224	**1**	**05-03-2024**	**128**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB225	**1**	**05-03-2024**	**128**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB225	**1**	**05-03-2024**	**128**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB226	**1**	**05-03-2024**	**128**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB226	**1**	**05-03-2024**	**128**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90383/1/CWLTB226	**1**	**05-03-2024**	**128**	**AX426**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90383/1/CWLTB227	**1**	**05-03-2024**	**128**	**AX426**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90383/1/CWLTB227	**1**	**05-03-2024**	**128**	**AX426**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90383/1/CWLTB227	**1**	**05-03-2024**	**128**	**AX426**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB228	**1**	**08-03-2024**	**117**	**AX238**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB229	**1**	**08-03-2024**	**117**	**AX238**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB230	**1**	**08-03-2024**	**117**	**AX238**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90383/1/CWLTB231	**1**	**08-03-2024**	**117**	**AX238**	**IPE**		**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90383/1/CWLTB232	**1**	**08-03-2024**	**120**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000598		Acceptable					13-03-2024		
1/90383/1/CWLTB233	**1**	**08-03-2024**	**120**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000595		Acceptable					13-03-2024		
1/90383/1/CWLTB234	**1**	**08-03-2024**	**120**	**AX411**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000596		Acceptable					13-03-2024		
1/90383/1/CWLTB235	**1**	**08-03-2024**	**120**	**AX411**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90383/1/CWLTB236	**1**	**08-03-2024**	**117**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000618		Acceptable					13-03-2024		
1/90383/1/CWLTB237	**1**	**08-03-2024**	**120**	**AX411**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000597		Acceptable					13-03-2024		
1/90383/1/CWLTB258	**1**	**08-03-2024**	**131**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90383/1/CWLTB258	**1**	**08-03-2024**	**131**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90383/1/CWLTB258	**1**	**08-03-2024**	**131**	**AX238**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90383/1/CWLTB259	**1**	**13-03-2024**	**132**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90383/1/CWLTB259	**1**	**13-03-2024**	**132**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000751		Acceptable					02-04-2024		
8/90383/1/CWLTB259	**1**	**13-03-2024**	**132**	**AX425**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-04-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000752		Acceptable					02-04-2024		
1/90383/1/CWLTB262	**1**	**26-08-2024**	**413**	**AX416**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90383/1/CWLTB262	**1**	**26-08-2024**	**413**	**AX416**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90383/1/CWLTB262	**1**	**26-08-2024**	**413**	**AX416**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90383/1/CWLTB262	**1**	**26-08-2024**	**413**	**AX416**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90383/1/CWLTB263		**1**	**26-08-2024**	**413**	**AX416**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
3/90383/1/CWLTB263		**1**	**26-08-2024**	**413**	**AX416**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
5/90383/1/CWLTB263		**1**	**26-08-2024**	**413**	**AX416**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	BLU	100 %	002291		Acceptable				05-09-2024		

Totals per DWG	**90383**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,60 m**	**55 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,60 m**	**55 Nr. Welds**
		Accepted	**6,60 m**	**55 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90384/1/CWLSB181	**0**	**06-03-2024**	**114**	**AX426**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000496		Acceptable				11-03-2024		
7/90384/1/CWLSB181	**0**	**06-03-2024**	**114**	**AX426**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000497		Acceptable				11-03-2024		
1/90384/1/CWLSB182	**0**	**06-03-2024**	**114**	**AX427**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000498		Acceptable				11-03-2024		
7/90384/1/CWLSB182	**0**	**06-03-2024**	**114**	**AX427**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000499		Acceptable				11-03-2024		
1/90384/1/CWLSB183	**0**	**06-03-2024**	**114**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000500		Acceptable				11-03-2024		
5/90384/1/CWLSB183	**0**	**06-03-2024**	**114**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000501		Acceptable				11-03-2024		
7/90384/1/CWLSB183	**0**	**06-03-2024**	**114**	**AX426**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **09-03-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90384/1/CWLSB184		**0**	**06-03-2024**	**114**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000502		Acceptable					11-03-2024		
7/90384/1/CWLSB184		**0**	**06-03-2024**	**114**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	000550		Acceptable					12-03-2024		
9/90384/1/CWLSB184		**0**	**06-03-2024**	**114**	**AX427**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90384/1/CWLSB190		**0**	**06-03-2024**	**114**	**AX90**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000600		Acceptable					13-03-2024		
10/90384/1/CWLSB190		**0**	**06-03-2024**	**114**	**AX90**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000601		Acceptable					13-03-2024		
1/90384/1/CWLSB195		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000503		Acceptable					11-03-2024		
8/90384/1/CWLSB195		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000504		Acceptable					11-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90384/1/CWLSB196		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000505		Acceptable					11-03-2024		
3/90384/1/CWLSB196		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90384/1/CWLSB196		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000506		Acceptable					11-03-2024		
6/90384/1/CWLSB196		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90384/1/CWLSB197		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000507		Acceptable					11-03-2024		
10/90384/1/CWLSB197		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	50 %	000508		Acceptable					11-03-2024		
12/90384/1/CWLSB197		**0**	**06-03-2024**	**114**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90384**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**4,62 m**	**21 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,62 m**	**21 Nr. Welds**
		Accepted	**4,62 m**	**21 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90385/1/CWLSB189		**0**	**06-03-2024**	**114**	**AX90**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0215 03	MM	100 %	000509		Acceptable					11-03-2024		
10/90385/1/CWLSB189		**0**	**06-03-2024**	**114**	**AX90**			**IPE**	**330,00 mm**	**16,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion			IDL-QCI-UT 0215 03	MM	100 %	000510		Acceptable					11-03-2024		
1/90385/1/CWLSB211		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	50 %	000525		Acceptable					11-03-2024		
3/90385/1/CWLSB211		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	50 %	000526		Acceptable					11-03-2024		
4/90385/1/CWLSB211		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
III	UT	FIN	Weld Completion					50 %			Acceptable							
6/90385/1/CWLSB211		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
III	UT	FIN	Weld Completion					50 %			Acceptable							
1/90385/1/CWLSB212		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	50 %	000523		Acceptable					11-03-2024		
3/90385/1/CWLSB212		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0214 02	MM	50 %	000524		Acceptable					11-03-2024		
4/90385/1/CWLSB212		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
III	UT	FIN	Weld Completion					50 %			Acceptable							
6/90385/1/CWLSB212		**0**	**07-03-2024**	**113**	**AX411**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-03-2024**
III	UT	FIN	Weld Completion					50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90385/1/CWLSB214	**0**	**07-03-2024**	**113**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000521		Acceptable				11-03-2024		
8/90385/1/CWLSB214	**0**	**07-03-2024**	**113**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000522		Acceptable				11-03-2024		
1/90385/1/CWLSB215	**0**	**07-03-2024**	**113**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000519		Acceptable				11-03-2024		
7/90385/1/CWLSB215	**0**	**07-03-2024**	**113**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000520		Acceptable				11-03-2024		
1/90385/1/CWLSB223	**0**	**07-03-2024**	**113**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000517		Acceptable				11-03-2024		
10/90385/1/CWLSB223	**0**	**07-03-2024**	**113**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000518		Acceptable				11-03-2024		
1/90385/1/CWLSB226	**0**	**07-03-2024**	**113**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000515		Acceptable				11-03-2024		
8/90385/1/CWLSB226	**0**	**07-03-2024**	**113**	**AX426**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	MM	100 %	000516		Acceptable				11-03-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90385/1/CWLSB232	**0**	**07-03-2024**	**113**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000514		Acceptable				11-03-2024		
7/90385/1/CWLSB232	**0**	**07-03-2024**	**113**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000513		Acceptable				11-03-2024		
1/90385/1/CWLSB233	**0**	**07-03-2024**	**113**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000511		Acceptable				11-03-2024		
7/90385/1/CWLSB233	**0**	**07-03-2024**	**113**	**AX90**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-03-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	000512		Acceptable				11-03-2024		

Totals per DWG	**90385**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**4,64 m**	**22 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,64 m**	**22 Nr. Welds**
		Accepted	**4,64 m**	**22 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90393/1/CWWN029	**0**	**29-05-2024**	**14**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001488		Acceptable					11-06-2024		
2/90393/1/CWWN029	**0**	**29-05-2024**	**14**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001489		Acceptable					11-06-2024		
3/90393/1/CWWN029	**0**	**29-05-2024**	**14**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001490		Acceptable					11-06-2024		
5/90393/1/CWWN029	**0**	**29-05-2024**	**14**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90393/1/CWWN029	**0**	**29-05-2024**	**14**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90393/1/CWWN029	**0**	**29-05-2024**	**14**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
18/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**136,70 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
19/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**136,70 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
20/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**136,70 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
21/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002303		Acceptable					12-09-2024		
22/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002304		Acceptable					12-09-2024		
23/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
23/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002305		Acceptable				12-09-2024			
24/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002306		Acceptable				12-09-2024			
25/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002307		Acceptable				12-09-2024			
26/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002308		Acceptable				12-09-2024			
27/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002309		Acceptable				12-09-2024			
28/90393/1/CWWN029	**0**	**29-05-2024**	**14**	**OB NM**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,297 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
29/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
30/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
31/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
32/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
33/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002310		Acceptable				12-09-2024			
34/90393/1/CWWN029	**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
34/90393/1/CWWN029		**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	002311		Acceptable				12-09-2024		
35/90393/1/CWWN029		**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	002312		Acceptable				12-09-2024		
36/90393/1/CWWN029		**0**	**09-09-2024**	**422**	**AX416**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	002313		Acceptable				12-09-2024		

Totals per DWG	**90393**	**Prefabrication**	**2,10 m**	**7 Nr. Welds**
		Erection	**3,84 m**	**18 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,94 m**	**25 Nr. Welds**
		Accepted	**5,94 m**	**25 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cont. / NOTE	Accept. Date
1/90394/1/CWWN030		**0**	**22-05-2024**	**9**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001464		Acceptable				05-06-2024			
2/90394/1/CWWN030		**0**	**22-05-2024**	**9**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90394/1/CWWN030		**0**	**22-05-2024**	**9**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	VP	50 %	001474		Acceptable				05-06-2024			
5/90394/1/CWWN030		**0**	**22-05-2024**	**9**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001465		Acceptable				05-06-2024			
6/90394/1/CWWN030		**0**	**22-05-2024**	**9**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001466		Acceptable				05-06-2024			
7/90394/1/CWWN030		**0**	**22-05-2024**	**9**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
18/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
19/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
20/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
21/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
22/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	002314		Acceptable				12-09-2024			
23/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class / Insp. Category	Cont.	Examination phase			Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
23/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002315		Acceptable				12-09-2024		
24/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002316		Acceptable				12-09-2024		
25/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002317		Acceptable				12-09-2024		
26/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002318		Acceptable				12-09-2024		
27/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002319		Acceptable				12-09-2024		
28/90394/1/CWWN030	**0**	**29-05-2024**	**14**	**OB SG**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,297 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
29/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**136,80 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
30/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**136,80 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
31/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**136,80 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
32/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002320		Acceptable				12-09-2024		
33/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002321		Acceptable				12-09-2024		
34/90394/1/CWWN030	**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
34/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	002322		Acceptable				12-09-2024		
35/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	002323		Acceptable				12-09-2024		
36/90394/1/CWWN030		**0**	**09-09-2024**	**422**	**AX426**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	002324		Acceptable				12-09-2024		

Totals per DWG	**90394**	**Prefabrication**	**2,10 m**	**7 Nr. Welds**
		Erection	**3,84 m**	**18 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,94 m**	**25 Nr. Welds**
		Accepted	**5,94 m**	**25 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet / Work Instructions	Welders / Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date
1/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX426**	**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							
2/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX426**	**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							
3/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX426**	**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							
4/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX426**	**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							
5/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX427**	**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							
6/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX427**	**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							
7/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX427**	**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							
8/90395/1/CWWN031		**1**	**11-09-2024**	**424**	**AX427**	**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion		50 %			Acceptable							

Totals per DWG	**90395**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,72 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,72 m**	**8 Nr. Welds**
		Accepted	**0,72 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX426**		**PL**		**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX426**		**PL**		**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX426**		**PL**		**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX426**		**PL**		**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX427**		**PL**		**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX427**		**PL**		**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX427**		**PL**		**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90396/1/CWWN032		**1**	**09-09-2024**	**427**	**AX427**		**PL**		**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90396**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,72 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,72 m**	**8 Nr. Welds**
		Accepted	**0,72 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90397/1/CWWN036	III	**0** / UT	**07-05-2024** / FIN	**1** Weld Completion	**OB MV** IDL-QCI-UT 0222 02	DEM	**PIPE** 50 %	**273,10 mm** 001241	**11,13 mm**	**1/2V** Acceptable	**0,857 m**	**P**	**C.S.**	**2A** 10-05-2024	**FCAW**	**T**	**10-05-2024**
1/90397/1/CWWN037	III	**0** / UT	**08-05-2024** / FIN	**2** Weld Completion	**OB ML** IDL-QCI-UT 0222 02	DEM	**PIPE** 50 %	**273,10 mm** 001304	**11,13 mm**	**1/2V** Acceptable	**0,857 m**	**P**	**C.S.**	**2A** 15-05-2024	**FCAW**	**T**	**15-05-2024**
1/90397/1/CWWN038	III	**0** / UT	**08-05-2024** / FIN	**2** Weld Completion	**OB ML**		**PIPE** 50 %	**273,10 mm**	**9,30 mm**	**1/2V** Acceptable	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-05-2024**
1/90397/1/CWWN039	III	**0** / UT	**07-05-2024** / FIN	**1** Weld Completion	**OB BM** IDL-QCI-UT 0222 02	DEM	**PIPE** 50 %	**273,10 mm** 001300	**9,30 mm**	**1/2V** Acceptable	**0,857 m**	**P**	**C.S.**	**2A** 10-05-2024	**FCAW**	**T**	**10-05-2024**

Totals per DWG	**90397**	**Prefabrication**	**3,44 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,44 m**	**4 Nr. Welds**
		Accepted	**3,44 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90398/1/CWWN042		**0**	**07-05-2024**	**1**	**OB BM**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001301		Acceptable				10-05-2024		
2/90398/1/CWWN043		**0**	**08-05-2024**	**2**	**OB ML**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90398**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90401/1/CWWN048		**0**	**07-05-2024**	**1**	**OB ML**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90401/1/CWWN048		**0**	**07-05-2024**	**1**	**OB MV**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001302		Acceptable					10-05-2024		
1/90401/1/CWWN049		**0**	**08-05-2024**	**2**	**OB MV**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001305		Acceptable					15-05-2024		
2/90401/1/CWWN049		**0**	**09-05-2024**	**3**	**OB ML**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001308		Acceptable					15-05-2024		

Totals per DWG	**90401**			
		Prefabrication	**3,44 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,44 m**	**4 Nr. Welds**
		Accepted	**3,44 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90402/1/CWWN050		**0**	**09-05-2024**	**3**	**OB ML**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001309		Acceptable				15-05-2024		
1/90402/1/CWWN051		**0**	**09-05-2024**	**3**	**OB NM**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001310		Acceptable				15-05-2024		
2/90402/1/CWWN051		**0**	**09-05-2024**	**3**	**OB NM**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001311		Acceptable				15-05-2024		

Totals per DWG	**90402**	**Prefabrication**	**2,58 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,58 m**	**3 Nr. Welds**
		Accepted	**2,58 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90403/1/CWWN052	**0**	**10-05-2024**	**4**	**OB NM**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**14-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90403/1/CWWN052	**0**	**10-05-2024**	**4**	**OB NM**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	001383		Acceptable				17-05-2024			
1/90403/1/CWWN072	**0**	**10-05-2024**	**4**	**OB NM**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	001384		Acceptable				17-05-2024			

Totals per DWG	**90403**	**Prefabrication**	**2,58 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,58 m**	**3 Nr. Welds**
		Accepted	**2,58 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90405/1/CWWN073	III	**0** / UT	**10-05-2024** / FIN	**4** / Weld Completion	**OB ML** / IDL-QCI-UT 0222 02	DEM	**PIPE** / 50 %	**273,10 mm** / 001385	**11,13 mm**	**1/2V** / Acceptable	**0,857 m**	**P**	**C.S.**	**2A** / 17-05-2024	**FCAW**	**T**	**17-05-2024**
1/90405/1/CWWN074	III	**0** / UT	**10-05-2024** / FIN	**4** / Weld Completion	**OB SG**		**PIPE** / 50 %	**273,10 mm**	**11,13 mm**	**1/2V** / Acceptable	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**14-05-2024**
2/90405/1/CWWN074	III	**0** / UT	**10-05-2024** / FIN	**4** / Weld Completion	**OB SG** / IDL-QCI-UT 0222 02	DEM	**PIPE** / 50 %	**273,10 mm** / 001386	**11,13 mm**	**1/2V** / Acceptable	**0,857 m**	**P**	**C.S.**	**2A** / 17-05-2024	**FCAW**	**T**	**17-05-2024**
1/90405/1/CWWN075	III	**0** / UT	**10-05-2024** / FIN	**4** / Weld Completion	**OB ML**		**PIPE** / 50 %	**273,10 mm**	**11,13 mm**	**1/2V** / Acceptable	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**14-05-2024**
2/90405/1/CWWN075	III	**0** / UT	**10-05-2024** / FIN	**4** / Weld Completion	**OB ML**		**PIPE** / 50 %	**273,10 mm**	**11,13 mm**	**1/2V** / Acceptable	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**14-05-2024**

Totals per DWG	**90405**			
		Prefabrication	**4,30 m**	**5 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,30 m**	**5 Nr. Welds**
		Accepted	**4,30 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Conn / NOTE	Accept. Date
1/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001600		Acceptable				18-06-2024			
2/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001601		Acceptable				18-06-2024			
7/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001602		Acceptable				18-06-2024			
8/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001603		Acceptable				18-06-2024			
9/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
13/90406/1/CWWN022		**0**	**12-06-2024**	**18**	**OB MA**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001604		Acceptable				18-06-2024			

Totals per DWG	**90406**			
		Prefabrication	**1,86 m**	**9 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**9 Nr. Welds**
		Accepted	**1,86 m**	**9 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001598		Acceptable				18-06-2024			
4/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001599		Acceptable				18-06-2024			
5/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001609		Acceptable				18-06-2024			
8/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
9/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001610		Acceptable				18-06-2024			
10/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
13/90407/1/CWWN023		**0**	**06-06-2024**	**16**	**OB NM**			**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001611		Acceptable				18-06-2024			

Totals per DWG	**90407**			
		Prefabrication	**1,86 m**	**9 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**9 Nr. Welds**
		Accepted	**1,86 m**	**9 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90410/1/CWWN040		**0**	**08-05-2024**	**2**	**OB BM**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001306		Acceptable				15-05-2024		
1/90410/1/CWWN041		**0**	**07-05-2024**	**1**	**OB ML**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001303		Acceptable				10-05-2024		

Totals per DWG	**90410**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90411/1/CWWN044		**0**	**07-05-2024**	**1**	**OB ML**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						
1/90411/1/CWWN045		**0**	**08-05-2024**	**2**	**OB MV**		**PIPE**	**273,10 mm**	**11,13 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001307		Acceptable				15-05-2024		

Totals per DWG	**90411**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90420/1/CWWS026		**0**	**05-07-2024**	**26**	**OB MV**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001685		Acceptable				10-07-2024			
2/90420/1/CWWS026		**0**	**05-07-2024**	**26**	**OB MV**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90420/1/CWWS026		**0**	**05-07-2024**	**26**	**OB MV**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	VP	50 %	001687		Acceptable				10-07-2024			
5/90420/1/CWWS026		**0**	**05-07-2024**	**26**	**OB MV**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90420/1/CWWS026		**0**	**05-07-2024**	**26**	**OB MV**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001686		Acceptable				10-07-2024			
7/90420/1/CWWS026		**0**	**05-07-2024**	**26**	**OB MV**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	VP	50 %	001688		Acceptable				10-07-2024			
18/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**136,80 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
19/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**136,80 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
20/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**136,80 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
21/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
22/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
23/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cont. / NOTE	Accept. Date
23/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
24/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
25/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
26/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
27/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
28/90420/1/CWWS026		**0**	**05-07-2024**	**26**	**OB MV**		**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,297 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
29/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
30/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
31/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
32/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
33/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
34/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
34/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
35/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
36/90420/1/CWWS026		**0**	**26-09-2024**	**432**	**AX426**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90420**	**Prefabrication**	**2,10 m**	**7 Nr. Welds**
		Erection	**3,84 m**	**18 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,94 m**	**25 Nr. Welds**
		Accepted	**5,94 m**	**25 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90421/1/CWWS027		**0**	**26-06-2024**	**23**	**OB ML**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001661		Acceptable				03-07-2024			
2/90421/1/CWWS027		**0**	**26-06-2024**	**23**	**OB ML**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001662		Acceptable				03-07-2024			
3/90421/1/CWWS027		**0**	**26-06-2024**	**23**	**OB ML**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001663		Acceptable				03-07-2024			
5/90421/1/CWWS027		**0**	**26-06-2024**	**23**	**OB ML**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001664		Acceptable				03-07-2024			
6/90421/1/CWWS027		**0**	**26-06-2024**	**24**	**OB ML**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001666		Acceptable				03-07-2024			
7/90421/1/CWWS027		**0**	**26-06-2024**	**23**	**OB ML**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001665		Acceptable				03-07-2024			
18/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
19/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
20/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,110 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
21/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**134,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
22/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
23/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cont. / NOTE	Accept. Date
23/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
24/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
25/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
26/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
27/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
28/90421/1/CWWS027		**0**	**26-06-2024**	**23**	**OB ML**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,297 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001660		Acceptable					03-07-2024		
29/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**136,70 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
30/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
31/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**136,70 mm**	**15,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
32/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**136,70 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
33/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,181 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
34/90421/1/CWWS027		**0**	**26-09-2024**	**432**	**AX90**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
34/90421/1/CWWS027	**0**	**26-09-2024**	**432**	**AX90**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
35/90421/1/CWWS027	**0**	**26-09-2024**	**432**	**AX90**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,297 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
36/90421/1/CWWS027	**0**	**26-09-2024**	**432**	**AX90**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,264 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90421**	**Prefabrication**	**2,10 m**	**7 Nr. Welds**
		Erection	**3,84 m**	**18 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,94 m**	**25 Nr. Welds**
		Accepted	**5,94 m**	**25 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
7/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90422/1/CWWS028		**1**	**26-09-2024**	**432**	**AX426**		**PL**	**100,00 mm**	**10,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90422**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,72 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,72 m**	**8 Nr. Welds**
		Accepted	**0,72 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev.	Cont.	Prod. Date	Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension	N. Rep	Thickness	Films n.	Bevel	Result	Weld Length	WPS Rip.	P/M	Material	Techn. Weld.	WPS	Defect length	Techn. Weld.	CND date	Type Cons	NOTE	Accept. Date
1/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**77,00 mm**		**10,00 mm**		**1/2V**		**0,080 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												
2/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**77,00 mm**		**10,00 mm**		**1/2V**		**0,080 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												
3/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**77,00 mm**		**10,00 mm**		**1/2V**		**0,080 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												
4/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**77,00 mm**		**10,00 mm**		**1/2V**		**0,080 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												
5/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**100,00 mm**		**10,00 mm**		**1/2V**		**0,100 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												
6/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**100,00 mm**		**10,00 mm**		**1/2V**		**0,100 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												
7/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**100,00 mm**		**10,00 mm**		**1/2V**		**0,100 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												
8/90423/1/CWWS029			**1**		**26-09-2024**		**432**	**AX90**			**PL**		**100,00 mm**		**10,00 mm**		**1/2V**		**0,100 m**		**M**	**C.S.**		**2A**		**FCAW**		**T**		**10-10-2024**
	III		UT		FIN		Weld Completion					50 %						Acceptable												

Totals per DWG	**90423**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,72 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,72 m**	**8 Nr. Welds**
		Accepted	**0,72 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
2/90424/1/CWWS035		**0**	**13-05-2024**	**5**	**OB ML**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90424/1/CWWS036		**0**	**13-05-2024**	**5**	**OB ML**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001387		Acceptable				17-05-2024			
2/90424/1/CWWS037		**0**	**14-05-2024**	**6**	**OB ML**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001388		Acceptable				17-05-2024			
2/90424/1/CWWS038		**0**	**14-05-2024**	**6**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90424**	**Prefabrication**	**3,44 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,44 m**	**4 Nr. Welds**
		Accepted	**3,44 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90425/1/CWWS039		**0**	**14-05-2024**	**6**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-05-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
2/90425/1/CWWS040		**0**	**14-05-2024**	**6**	**OB ML**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001389		Acceptable				17-05-2024		

Totals per DWG	**90425**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90429/1/CWWS043	**0**	**17-05-2024**	**7**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90429/1/CWWS044	**0**	**21-05-2024**	**8**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90429**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90430/1/CWWS045			**0**	**17-05-2024**	**7**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
	III	UT		FIN	Weld Completion			50 %			Acceptable							
1/90430/1/CWWS047			**0**	**17-05-2024**	**7-15**	**OB SG**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
						OB NM **Repair done**												
	III	UT		FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	001415		Repair				0,210 m	24-05-2024		
		UT	R 1	DRI	After Repair	IDL-QCI-UT 0222 02	VP	50 %	001605		Acceptable					18-06-2024		
2/90430/1/CWWS047			**0**	**17-05-2024**	**7-15**	**OB SG**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
						OB NM **Repair done**												
	III	UT		FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	001416		Repair				0,100 m	24-05-2024		
		UT	R 1	DRI	After Repair	IDL-QCI-UT 0222 02	VP	50 %	001606		Acceptable					18-06-2024		

Totals per DWG	**90430**	**Prefabrication**	**2,58 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,58 m**	**3 Nr. Welds**
		Accepted	**2,58 m**	**3 Nr. Welds**
		Repaired	**0,31 m**	**2 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90431/1/CWWS048		**0**	**21-05-2024**	**8**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
2/90431/1/CWWS048		**0**	**21-05-2024**	**8**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
1/90431/1/CWWS049		**0**	**17-05-2024**	**7**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
2/90431/1/CWWS049		**0**	**17-05-2024**	**7**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-05-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	001414		Acceptable				24-05-2024		

Totals per DWG	**90431**	**Prefabrication**	**3,44 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,44 m**	**4 Nr. Welds**
		Accepted	**3,44 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90432/1/CWWS050	**0**	**21-05-2024**	**8**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001409		Acceptable				24-05-2024		
2/90432/1/CWWS050	**0**	**21-05-2024**	**8**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001410		Acceptable				24-05-2024		
1/90432/1/CWWS069	**0**	**21-05-2024**	**8-15**	**OB SG**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
				OB NM	**Repair done**												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001411		Repair			0,215 m	24-05-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0222 02	VP	50 %	001607		Acceptable				18-06-2024		
2/90432/1/CWWS069	**0**	**21-05-2024**	**8-15**	**OB SG**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
				OB NM	**Repair done**												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001412		Repair			0,230 m	24-05-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0222 02	VP	50 %	001608		Acceptable				18-06-2024		

Totals per DWG	**90432**			
		Prefabrication	**3,44 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,44 m**	**4 Nr. Welds**
		Accepted	**3,44 m**	**4 Nr. Welds**
		Repaired	**0,45 m**	**2 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90433/1/CWWS070	**0**	**21-05-2024**	**8**	**OB SG**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90433/1/CWWS070	**0**	**21-05-2024**	**8**	**OB SG**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001413		Acceptable				24-05-2024			

Totals per DWG	**90433**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Conn / NOTE	Accept. Date
1/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002126		Acceptable				07-08-2024			
2/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002125		Acceptable				07-08-2024			
3/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002127		Acceptable				07-08-2024			
4/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002128		Acceptable				07-08-2024			
5/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002129		Acceptable				07-08-2024			
7/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002141		Acceptable				07-08-2024			
12/90436/1/CWWS077		**0**	**24-07-2024**	**41**	**OB BM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90436**	**Prefabrication**	**1,86 m**	**9 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**9 Nr. Welds**
		Accepted	**1,86 m**	**9 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cons / NOTE	Accept. Date
1/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002140		Acceptable				07-08-2024			
2/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,243 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002114		Acceptable				07-08-2024			
3/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002137		Acceptable				07-08-2024			
4/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002138		Acceptable				07-08-2024			
5/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002139		Acceptable				07-08-2024			
7/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,064 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
12/90437/1/CWWS078		**0**	**24-07-2024**	**41**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,388 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002142		Acceptable				07-08-2024			

Totals per DWG	**90437**			
		Prefabrication	**1,86 m**	**9 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**9 Nr. Welds**
		Accepted	**1,86 m**	**9 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90438/1/CWWS033		**0**	**14-05-2024**	**6**	**OB MA**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						
1/90438/1/CWWS034		**0**	**14-05-2024**	**6**	**OB MA**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	001392		Acceptable				17-05-2024		

Totals per DWG	**90438**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90439/1/CWWS041	**0**	**14-05-2024**	**6**	**OB ML**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	001390		Acceptable				17-05-2024			
1/90439/1/CWWS042	**0**	**14-05-2024**	**6**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-05-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	001391		Acceptable				17-05-2024			

Totals per DWG	**90439**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90450/1/CWWN003	**0**	**09-07-2024**	**31**	**OB BM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90450/1/CWWN003	**0**	**09-07-2024**	**31**	**OB BM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90450/1/CWWN003	**0**	**09-07-2024**	**31**	**OB BM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90450/1/CWWN003	**0**	**09-07-2024**	**31**	**OB BM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90450/1/CWWN024	**0**	**24-05-2024**	**1**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001462		Acceptable				05-06-2024		
5/90450/1/CWWN024	**0**	**24-05-2024**	**1**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001463		Acceptable				05-06-2024		
6/90450/1/CWWN024	**0**	**14-06-2024**	**10**	**OB MA**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001577		Acceptable				20-06-2024		
10/90450/1/CWWN024	**0**	**14-06-2024**	**10**	**OB MA**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001578		Acceptable				20-06-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90450/1/CWWN025		**0**	**13-06-2024**	**9**	**OB ML**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001543		Acceptable				20-06-2024		
5/90450/1/CWWN025		**0**	**13-06-2024**	**9**	**OB ML**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001544		Acceptable				20-06-2024		
6/90450/1/CWWN025		**0**	**24-05-2024**	**1**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
10/90450/1/CWWN025		**0**	**24-05-2024**	**1**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**29-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90450/1/CWWN026		**0**	**27-05-2024**	**3**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001468		Acceptable				05-06-2024		
5/90450/1/CWWN026		**0**	**27-05-2024**	**3**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001469		Acceptable				05-06-2024		
6/90450/1/CWWN026		**0**	**14-06-2024**	**10**	**OB ML**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
10/90450/1/CWWN026		**0**	**14-06-2024**	**10**	**OB ML**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001538		Acceptable				20-06-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90450/1/CWWN027	**0**	**13-06-2024**	**9**	**OB ML**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001545		Acceptable				20-06-2024		
5/90450/1/CWWN027	**0**	**13-06-2024**	**9**	**OB ML**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001542		Acceptable				20-06-2024		
6/90450/1/CWWN027	**0**	**27-05-2024**	**3**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-05-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
10/90450/1/CWWN027	**0**	**27-05-2024**	**3**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001467		Acceptable				05-06-2024		
1/90450/1/CWWN081	**0**	**14-06-2024**	**10**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90450/1/CWWN081	**0**	**14-06-2024**	**13**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**21-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
5/90450/1/CWWN081	**0**	**14-06-2024**	**10**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001539		Acceptable				20-06-2024		
8/90450/1/CWWN081	**0**	**14-06-2024**	**13**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**21-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90450/1/CWWN083	**0**	**09-07-2024**	**31**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90450/1/CWWN083	**0**	**09-07-2024**	**32**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,066 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90450/1/CWWN083	**0**	**09-07-2024**	**31**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90450/1/CWWN083	**0**	**09-07-2024**	**32**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,066 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90450**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,06 m**	**28 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,06 m**	**28 Nr. Welds**
		Accepted	**6,06 m**	**28 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90451/1/CWWN018		**1**	**14-06-2024**	**10**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001576		Acceptable				20-06-2024		
5/90451/1/CWWN018		**1**	**14-06-2024**	**10**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-06-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
6/90451/1/CWWN018		**1**	**14-06-2024**	**10**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001537		Acceptable				20-06-2024		
10/90451/1/CWWN018		**1**	**14-06-2024**	**10**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001536		Acceptable				20-06-2024		
1/90451/1/CWWN019		**1**	**30-05-2024**	**5**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001491		Acceptable				11-06-2024		
5/90451/1/CWWN019		**1**	**30-05-2024**	**5**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-06-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
6/90451/1/CWWN019		**1**	**30-05-2024**	**5**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**11-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	VP	50 %	001492		Acceptable				11-06-2024		
10/90451/1/CWWN019		**1**	**30-05-2024**	**5**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-06-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90451/1/CWWN029		**1**	**01-10-2024**	**434**	**AX90**			**PL**		**360,00 mm**	**25,00 mm**	**1/2V**	**1,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable						no scanning area	
2/90451/1/CWWN029		**1**	**13-06-2024**	**9**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP		50 %	001541		Acceptable					20-06-2024		
6/90451/1/CWWN029		**1**	**13-06-2024**	**9**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP		50 %	001540		Acceptable					20-06-2024		
7/90451/1/CWWN029		**1**	**03-10-2024**	**439**	**AX416**			**PL**		**360,00 mm**	**25,00 mm**	**V**	**0,340 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable						no scanning area	
8/90451/1/CWWN029		**1**	**10-09-2024**	**425**	**AX426**			**PL**		**136,70 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
9/90451/1/CWWN029		**1**	**10-09-2024**	**425**	**AX426**			**PL**		**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
1/90451/1/CWWN030		**1**	**01-10-2024**	**434**	**AX416**			**PL**		**360,00 mm**	**25,00 mm**	**1/2V**	**1,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable						no scanning area	
2/90451/1/CWWN030		**1**	**14-06-2024**	**10**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
6/90451/1/CWWN030		**1**	**14-06-2024**	**10**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP		50 %	001535		Acceptable					20-06-2024		
7/90451/1/CWWN030		**1**	**03-10-2024**	**439**	**AX416**			**PL**		**360,00 mm**	**25,00 mm**	**V**	**0,340 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable						no scanning area	
8/90451/1/CWWN030		**1**	**10-09-2024**	**425**	**AX427**			**PL**		**136,80 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
9/90451/1/CWWN030		**1**	**10-09-2024**	**425**	**AX427**			**PL**		**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
9/90451/1/CWWN030		**1**	**10-09-2024**	**425**	**AX427**			**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**19-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90451/1/CWWN031		**1**	**10-09-2024**	**421**	**AX427**			**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002300		Acceptable					12-09-2024		
2/90451/1/CWWN031		**1**	**10-09-2024**	**421**	**AX427**			**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002301		Acceptable					12-09-2024		
3/90451/1/CWWN031		**1**	**10-09-2024**	**421**	**AX427**			**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002302		Acceptable					12-09-2024		
4/90451/1/CWWN031		**1**	**10-09-2024**	**421**	**AX427**			**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90451/1/CWWN031		**1**	**10-09-2024**	**421**	**AX427**			**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90451/1/CWWN032		**1**	**10-09-2024**	**421**	**AX426**			**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90451/1/CWWN032		**1**	**10-09-2024**	**421**	**AX426**			**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90451/1/CWWN032		**1**	**10-09-2024**	**421**	**AX426**			**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90451/1/CWWN032		**1**	**10-09-2024**	**421**	**AX426**			**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90451/1/CWWN032		**1**	**10-09-2024**	**421**	**AX426**			**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
5/90451/1/CWWN032	**1**	**10-09-2024**	**421**	**AX426**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-09-2024**

Totals per DWG	**90451**	**Prefabrication**	**0,00 m** **0 Nr. Welds**
		Erection	**8,92 m** **30 Nr. Welds**
		Offshore	**0,00 m** **0 Nr. Welds**
		Performed	**8,92 m** **30 Nr. Welds**
		Accepted	**8,92 m** **30 Nr. Welds**
		Repaired	**0,00 m** **0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90453/1/CWWN020		**0**	**23-05-2024**	**2**	**OB SG**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90453/1/CWWN020		**0**	**23-05-2024**	**2**	**OB SG**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001471		Acceptable					05-06-2024		
6/90453/1/CWWN020		**0**	**23-05-2024**	**2**	**OB SG**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90453/1/CWWN020		**0**	**23-05-2024**	**2**	**OB SG**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001472		Acceptable					05-06-2024		
1/90453/1/CWWN046		**0**	**17-06-2024**	**14**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001646		Acceptable					03-07-2024		
5/90453/1/CWWN046		**0**	**17-06-2024**	**14**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**21-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90453/1/CWWN046		**0**	**17-06-2024**	**14**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**21-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90453/1/CWWN046		**0**	**17-06-2024**	**14**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001647		Acceptable					03-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90453/1/CWWN047		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001631		Acceptable					27-06-2024		
5/90453/1/CWWN047		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90453/1/CWWN047		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001632		Acceptable					27-06-2024		
10/90453/1/CWWN047		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001633		Acceptable					27-06-2024		
1/90453/1/CWWN053		**0**	**17-06-2024**	**14**	**OB ML**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**21-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90453/1/CWWN053		**0**	**17-06-2024**	**14**	**OB ML**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001648		Acceptable					03-07-2024		
6/90453/1/CWWN053		**0**	**17-06-2024**	**14**	**OB ML**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001649		Acceptable					03-07-2024		
10/90453/1/CWWN053		**0**	**17-06-2024**	**14**	**OB ML**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**21-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90453/1/CWWN054		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001635		Acceptable					27-06-2024		
5/90453/1/CWWN054		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90453/1/CWWN054		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001634		Acceptable					27-06-2024		
10/90453/1/CWWN054		**0**	**20-06-2024**	**17**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001636		Acceptable					27-06-2024		
1/90453/1/CWWN055		**0**	**28-05-2024**	**4**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001493		Acceptable					11-06-2024		
5/90453/1/CWWN055		**0**	**28-05-2024**	**4**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90453/1/CWWN055		**0**	**28-05-2024**	**4**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001494		Acceptable					11-06-2024		
10/90453/1/CWWN055		**0**	**28-05-2024**	**4**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90453/1/CWWN056		**0**	**20-06-2024**	**17**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001637		Acceptable					27-06-2024		
5/90453/1/CWWN056		**0**	**20-06-2024**	**17**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001638		Acceptable					27-06-2024		
6/90453/1/CWWN056		**0**	**20-06-2024**	**17**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001639		Acceptable					27-06-2024		
10/90453/1/CWWN056		**0**	**20-06-2024**	**17**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001640		Acceptable					27-06-2024		
1/90453/1/CWWN057		**0**	**18-06-2024**	**15**	**OB ML**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001612		Acceptable					27-06-2024		
5/90453/1/CWWN057		**0**	**18-06-2024**	**15**	**OB ML**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001613		Acceptable					27-06-2024		
6/90453/1/CWWN057		**0**	**23-05-2024**	**2**	**OB SG**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-05-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90453/1/CWWN057		**0**	**23-05-2024**	**2**	**OB SG**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001473		Acceptable					05-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90453/1/CWWN058		**0**	**18-06-2024**	**15**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001614		Acceptable					27-06-2024		
5/90453/1/CWWN058		**0**	**18-06-2024**	**15**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001615		Acceptable					27-06-2024		
6/90453/1/CWWN058		**0**	**18-06-2024**	**15**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001616		Acceptable					27-06-2024		
10/90453/1/CWWN058		**0**	**18-06-2024**	**15**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001617		Acceptable					27-06-2024		
1/90453/1/CWWN076		**0**	**27-05-2024**	**3**	**OB SG**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001470		Acceptable					05-06-2024		
5/90453/1/CWWN076		**0**	**27-05-2024**	**3**	**OB SG**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-05-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90453/1/CWWN076		**0**	**18-06-2024**	**15**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001618		Acceptable					27-06-2024		
10/90453/1/CWWN076		**0**	**18-06-2024**	**15**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001619		Acceptable					27-06-2024		

Totals per DWG	**90453**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,40 m**	**40 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,40 m**	**40 Nr. Welds**
		Accepted	**6,40 m**	**40 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90454/1/CWWN001		**0**	**18-06-2024**	**15**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001620		Acceptable					27-06-2024		
3/90454/1/CWWN001		**0**	**18-06-2024**	**15**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001621		Acceptable					27-06-2024		
4/90454/1/CWWN001		**0**	**09-07-2024**	**36**	**OB BM**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90454/1/CWWN001		**0**	**19-06-2024**	**16**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001622		Acceptable					27-06-2024		
7/90454/1/CWWN001		**0**	**20-06-2024**	**18**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001641		Acceptable					27-06-2024		
8/90454/1/CWWN001		**0**	**09-07-2024**	**36**	**OB BM**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90454/1/CWWN002		**0**	**19-06-2024**	**16**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001623		Acceptable					27-06-2024		
3/90454/1/CWWN002		**0**	**19-06-2024**	**16**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001624		Acceptable					27-06-2024		
4/90454/1/CWWN002		**0**	**19-06-2024**	**16**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001625		Acceptable					27-06-2024		
6/90454/1/CWWN002		**0**	**19-06-2024**	**16**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001626		Acceptable					27-06-2024		
12/90454/1/CWWN002		**0**	**09-07-2024**	**31**	**OB BM**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
16/90454/1/CWWN002		**0**	**09-07-2024**	**31**	**OB BM**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
16/90454/1/CWWN002		**0**	**09-07-2024**	**31**	**OB BM**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90454/1/CWWN021		**0**	**11-06-2024**	**8**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001644		Acceptable					03-07-2024		
5/90454/1/CWWN021		**0**	**11-06-2024**	**8**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001645		Acceptable					03-07-2024		
6/90454/1/CWWN021		**0**	**11-06-2024**	**8**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90454/1/CWWN021		**0**	**11-06-2024**	**8**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90454/1/CWWN053		**0**	**09-07-2024**	**36**	**OB BM**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90454/1/CWWN054		**0**	**09-07-2024**	**36**	**OB BM**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90454/1/CWWN054		**0**	**09-07-2024**	**36**	**OB BM**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**16-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
4/90454/1/CWWN058		**0**	**29-08-2024**	**410**	**AX414**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90454/1/CWWN070		**0**	**25-06-2024**	**19**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,312 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001650		Acceptable					03-07-2024		
2/90454/1/CWWN070		**0**	**25-06-2024**	**19**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90454/1/CWWN070		**0**	**25-06-2024**	**19**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,193 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90454/1/CWWN070		**0**	**25-06-2024**	**19**	**OB NM**			**PIPE**	**141,30 mm**	**6,50 mm**	**1/2V**	**0,704 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001651		Acceptable					03-07-2024		
1/90454/1/CWWN071		**0**	**25-06-2024**	**19**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,205 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90454/1/CWWN071		**0**	**25-06-2024**	**19**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001652		Acceptable					03-07-2024		
3/90454/1/CWWN071		**0**	**25-06-2024**	**19**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,309 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90454/1/CWWN077		**0**	**25-06-2024**	**20**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,193 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90454/1/CWWN077		**0**	**25-06-2024**	**20**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90454/1/CWWN077		**0**	**25-06-2024**	**20**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,312 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001653		Acceptable					03-07-2024		
4/90454/1/CWWN077		**0**	**25-06-2024**	**20**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,309 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001654		Acceptable					03-07-2024		
5/90454/1/CWWN077		**0**	**25-06-2024**	**20**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**27-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90454/1/CWWN077		**0**	**25-06-2024**	**20**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,205 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90454/1/CWWN079		**0**	**19-06-2024**	**16**	**OB ML**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001627		Acceptable					27-06-2024		
5/90454/1/CWWN079		**0**	**19-06-2024**	**16**	**OB ML**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001628		Acceptable					27-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90454/1/CWWN080		**0**	**19-06-2024**	**16**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001629		Acceptable				27-06-2024			
5/90454/1/CWWN080		**0**	**19-06-2024**	**16**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**27-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	VP	50 %	001630		Acceptable				27-06-2024			
1/90454/1/CWWN082		**0**	**29-08-2024**	**410**	**AX414**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90454/1/CWWN082		**0**	**29-08-2024**	**410**	**AX414**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90454/1/CWWN083		**0**	**29-08-2024**	**410**	**AX414**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	002293		Acceptable				09-09-2024			
13/90454/1/CWWN083		**0**	**29-08-2024**	**410**	**AX414**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90454**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,46 m**	**41 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,46 m**	**41 Nr. Welds**
		Accepted	**6,46 m**	**41 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90456/1/CWWN022		**0**	**01-10-2024**	**434**	**AX90**			**PL**	**360,00 mm**	**25,00 mm**	**V**	**0,360 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable						no scanning area	
3/90456/1/CWWN022		**0**	**14-06-2024**	**11-24-33**	**OB MV**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-07-2024**
					OB NM	**Welding + Repair done**												
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001594		Acceptable					18-06-2024		
		UT	R1 DRI	After Repair		IDL-QCI-UT 0215 03	DEM	50 %	001667		Acceptable					03-07-2024		
		UT	R2 DRI	After Repair		IDL-QCI-UT 0215 03	VP	50 %	001830		Acceptable					16-07-2024		
7/90456/1/CWWN022		**0**	**14-06-2024**	**11**	**OB MV**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**24-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90456/1/CWWN023		**0**	**01-10-2024**	**434**	**AX90**			**PL**	**360,00 mm**	**25,00 mm**	**V**	**0,360 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable						no scanning area	
3/90456/1/CWWN023		**0**	**06-06-2024**	**7-24**	**OB NM**	**Welding + Repair done**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
		UT	R1 DRI	After Repair		IDL-QCI-UT 0215 03	DEM	50 %	001668		Acceptable					03-07-2024		
7/90456/1/CWWN023		**0**	**06-06-2024**	**7-24**	**OB NM**	**Welding + Repair done**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001596		Acceptable					18-06-2024		
		UT	R1 DRI	After Repair		IDL-QCI-UT 0215 03	DEM	50 %	001669		Acceptable					03-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90456/1/CWWN028		**0**	**04-07-2024**	**28**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90456/1/CWWN028		**0**	**05-07-2024**	**29**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001693		Acceptable					10-07-2024		
6/90456/1/CWWN028		**0**	**07-06-2024**	**6**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**24-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001595		Acceptable					18-06-2024		
10/90456/1/CWWN028		**0**	**07-06-2024**	**6-24-33**	**OB NM**	**Welding + Repair done**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03	DEM	50 %	001670		Acceptable					03-07-2024		
		UT	R 2 DRI	After Repair		IDL-QCI-UT 0215 03	VP	50 %	001831		Acceptable					16-07-2024		
1/90456/1/CWWN033		**0**	**03-07-2024**	**27**	**OB NM**			**PL**	**430,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90456/1/CWWN033		**0**	**05-07-2024**	**29**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90456/1/CWWN033		**0**	**03-07-2024**	**27**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001691		Acceptable					10-07-2024		
10/90456/1/CWWN033		**0**	**05-07-2024**	**29**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90456/1/CWWN034	**0**	**03-07-2024**	**27**	**OB NM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
5/90456/1/CWWN034	**0**	**05-07-2024**	**29**	**OB NM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90456/1/CWWN034	**0**	**03-07-2024**	**27**	**OB NM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001692		Acceptable				10-07-2024		
10/90456/1/CWWN034	**0**	**05-07-2024**	**29**	**OB NM**			**IPE**		**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90456/1/CWWN035	**0**	**15-06-2024**	**12**	**OB MA**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
5/90456/1/CWWN035	**0**	**15-06-2024**	**12**	**OB MA**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001597		Acceptable				18-06-2024		
6/90456/1/CWWN035	**0**	**04-07-2024**	**28**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
10/90456/1/CWWN035	**0**	**05-07-2024**	**29**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90456/1/CWWN062		**0**	**04-07-2024**	**28**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90456/1/CWWN062		**0**	**04-07-2024**	**28**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90456/1/CWWN062		**0**	**05-07-2024**	**29**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90456/1/CWWN062		**0**	**05-07-2024**	**29**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	VP	50 %	001694		Acceptable					10-07-2024		
1/90456/1/CWWN069		**0**	**05-07-2024**	**29**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90456/1/CWWN069		**0**	**05-07-2024**	**29**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90456/1/CWWN069		**0**	**05-07-2024**	**29**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90456/1/CWWN069		**0**	**05-07-2024**	**29**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
12/90456/1/CWWN069		**0**	**30-08-2024**	**409**	**AX414**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
16/90456/1/CWWN069		**0**	**30-08-2024**	**409**	**AX414**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90456/1/CWWN078	**0**	**04-07-2024**	**28**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90456/1/CWWN078	**0**	**04-07-2024**	**28**	**OB NM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90456/1/CWWN082	**0**	**29-08-2024**	**410**	**AX414**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
13/90456/1/CWWN082	**0**	**30-08-2024**	**409**	**AX414**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90456**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**7,30 m**	**36 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,30 m**	**36 Nr. Welds**
		Accepted	**7,30 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90457/1/CWWN004	**0**	**27-06-2024**	**21**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90457/1/CWWN004	**0**	**08-07-2024**	**30**	**OB BM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90457/1/CWWN005	**0**	**27-06-2024**	**21**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90457/1/CWWN005	**0**	**08-07-2024**	**30**	**OB MA**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90457/1/CWWN013	**0**	**12-07-2024**	**34**	**OB MA**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001832		Acceptable					16-07-2024		
2/90457/1/CWWN013	**0**	**26-08-2024**	**405**	**AX414**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002281		Acceptable					03-09-2024		
1/90457/1/CWWN014	**0**	**12-07-2024**	**34**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001833		Acceptable					16-07-2024		
2/90457/1/CWWN014	**0**	**26-08-2024**	**405**	**AX414**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002282		Acceptable					03-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90457/1/CWWN015		**0**	**28-06-2024**	**22**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-07-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001655		Acceptable				03-07-2024		
2/90457/1/CWWN015		**0**	**08-07-2024**	**30**	**OB MA**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90457**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**8,60 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,60 m**	**10 Nr. Welds**
		Accepted	**8,60 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90458/1/CWWN006		**0**	**27-06-2024**	**21**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90458/1/CWWN006		**0**	**08-07-2024**	**30**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90458/1/CWWN007		**0**	**29-06-2024**	**23**	**OB MA**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001657		Acceptable					03-07-2024		
2/90458/1/CWWN007		**0**	**08-07-2024**	**30**	**OB ML**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90458/1/CWWN010		**0**	**13-07-2024**	**35**	**OB NM**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001835		Acceptable					16-07-2024		
2/90458/1/CWWN010		**0**	**27-08-2024**	**404**	**AX414**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002277		Acceptable					03-09-2024		
1/90458/1/CWWN011		**0**	**13-07-2024**	**35**	**OB MA**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	001836		Acceptable					16-07-2024		
2/90458/1/CWWN011		**0**	**27-08-2024**	**404**	**AX414**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002278		Acceptable					03-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90458/1/CWWN016	**0**	**28-06-2024**	**22**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90458/1/CWWN016	**0**	**08-07-2024**	**30**	**OB BM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90458**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**8,60 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,60 m**	**10 Nr. Welds**
		Accepted	**8,60 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90459/1/CWWN008		**0**	**29-06-2024**	**23**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001658		Acceptable					03-07-2024		
2/90459/1/CWWN008		**0**	**08-07-2024**	**30**	**OB NM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90459/1/CWWN060		**0**	**01-07-2024**	**26**	**OB BM**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	001689		Acceptable					10-07-2024		
2/90459/1/CWWN060		**0**	**01-07-2024**	**26**	**OB ML**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	001690		Acceptable					10-07-2024		

Totals per DWG	**90459**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**3,40 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,40 m**	**4 Nr. Welds**
		Accepted	**3,40 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90460/1/CWWN017		**0**	**12-07-2024**	**34**	**OB BM**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	001834		Acceptable				16-07-2024		
2/90460/1/CWWN017		**0**	**28-08-2024**	**403**	**AX414**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	TN	50 %	002279		Acceptable				03-09-2024		
1/90460/1/CWWN061		**0**	**13-07-2024**	**35**	**OB ML**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
2/90460/1/CWWN061		**0**	**13-07-2024**	**35**	**OB ML**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	001837		Acceptable				16-07-2024		

Totals per DWG	**90460**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,40 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,40 m**	**4 Nr. Welds**
		Accepted	**3,40 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90461/1/CWWN009	III	**0** / UT	**29-06-2024** / FIN	**23** / Weld Completion	**OB NM** / IDL-QCI-UT 0214 02	DEM	**PIPE** / 50 %	**273,10 mm** / 001659	**9,30 mm**	**1/2V** / Acceptable	**0,857 m**	**M**	**C.S.**	**2A** 03-07-2024	**FCAW**	**T**	**03-07-2024**
2/90461/1/CWWN009	III	**0** / UT	**08-07-2024** / FIN	**30** / Weld Completion	**OB ML**		**PIPE** / 50 %	**273,10 mm**	**9,30 mm**	**1/2V** / Acceptable	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
1/90461/1/CWWN012	III	**0** / UT	**13-07-2024** / FIN	**35** / Weld Completion	**OB MA** / IDL-QCI-UT 0222 02	VP	**PIPE** / 50 %	**273,10 mm** / 001838	**9,30 mm**	**1/2V** / Acceptable	**0,857 m**	**M**	**C.S.**	**2A** 16-07-2024	**FCAW**	**T**	**16-07-2024**
2/90461/1/CWWN012	III	**0** / UT	**28-08-2024** / FIN	**403** / Weld Completion	**AX414** / IDL-QCI-UT 0222 02	TN	**PIPE** / 50 %	**273,10 mm** / 002280	**9,30 mm**	**1/2V** / Acceptable	**0,857 m**	**M**	**C.S.**	**2A** 03-09-2024	**FCAW**	**T**	**03-09-2024**
1/90461/1/CWWN059	III	**0** / UT	**28-06-2024** / FIN	**22** / Weld Completion	**OB NM** / IDL-QCI-UT 0214 02	DEM	**PIPE** / 50 %	**219,10 mm** / 001656	**8,20 mm**	**1/2V** / Acceptable	**0,835 m**	**M**	**C.S.**	**2A** 03-07-2024	**FCAW**	**T**	**03-07-2024**
2/90461/1/CWWN059	III	**0** / UT	**02-07-2024** / FIN	**25** / Weld Completion	**OB NM**		**PIPE** / 50 %	**219,10 mm**	**8,20 mm**	**1/2V** / Acceptable	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**

Totals per DWG	**90461**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**5,12 m**	**6 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,12 m**	**6 Nr. Welds**
		Accepted	**5,12 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90464/1/CWWS003		**00**	**25-07-2024**	**44**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90464/1/CWWS003		**00**	**25-07-2024**	**44**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90464/1/CWWS003		**00**	**25-07-2024**	**44**	**OB BM**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90464/1/CWWS003		**00**	**25-07-2024**	**44**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90464/1/CWWS003		**00**	**01-08-2024**	**53**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002058		Acceptable					05-08-2024		
8/90464/1/CWWS003		**00**	**01-08-2024**	**53**	**OB MA**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002059		Acceptable					05-08-2024		
1/90464/1/CWWS023		**00**	**23-07-2024**	**43**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90464/1/CWWS023		**00**	**23-07-2024**	**43**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90464/1/CWWS023		**00**	**11-07-2024**	**37**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90464/1/CWWS023		**00**	**11-07-2024**	**37**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**19-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90464/1/CWWS024		**00**	**11-07-2024**	**37**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001864		Acceptable				31-07-2024		
5/90464/1/CWWS024		**00**	**11-07-2024**	**37**	**OB NM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001865		Acceptable				31-07-2024		
6/90464/1/CWWS024		**00**	**23-07-2024**	**43**	**OB MA**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT		FIN	Weld Completion			50 %			Acceptable						
10/90464/1/CWWS024		**00**	**23-07-2024**	**43**	**OB MA**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT		FIN	Weld Completion			50 %			Acceptable						
1/90464/1/CWWS025		**00**	**23-07-2024**	**43**	**OB BM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT		FIN	Weld Completion			50 %			Acceptable						
5/90464/1/CWWS025		**00**	**23-07-2024**	**43**	**OB BM**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT		FIN	Weld Completion			50 %			Acceptable						
6/90464/1/CWWS025		**00**	**16-07-2024**	**38**	**OB MA**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001855		Acceptable				30-07-2024		
10/90464/1/CWWS025		**00**	**16-07-2024**	**38**	**OB MA**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001856		Acceptable				30-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90464/1/CWWS074		**00**	**26-07-2024**	**45**	**OB BM**		**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
5/90464/1/CWWS074		**00**	**26-07-2024**	**45**	**OB BM**		**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,081 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
8/90464/1/CWWS074		**00**	**26-07-2024**	**45**	**OB BM**		**PL**		**91,50 mm**	**10,00 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
1/90464/1/CWWS079		**00**	**16-07-2024**	**38**	**OB MA**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001857		Acceptable				30-07-2024		
5/90464/1/CWWS079		**00**	**16-07-2024**	**38-42**	**OB MA**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
					OB NM **Repair done**													
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001858		Acceptable				30-07-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 03	DEM	50 %	001863		Acceptable				30-07-2024		
6/90464/1/CWWS079		**00**	**23-07-2024**	**43**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001866		Acceptable				31-07-2024		
10/90464/1/CWWS079		**00**	**23-07-2024**	**43**	**OB NM**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	DEM	50 %	001867		Acceptable				31-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90464/1/CWWS082		**00**	**01-08-2024**	**53**	**OB MA**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	002060		Acceptable				05-08-2024		
5/90464/1/CWWS082		**00**	**01-08-2024**	**53**	**OB MA**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	002061		Acceptable				05-08-2024		

Totals per DWG	**90464**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**5,98 m**	**27 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,98 m**	**27 Nr. Welds**
		Accepted	**5,98 m**	**27 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90465/1/CWWS018	**1**	**11-07-2024**	**37**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001840		Acceptable				16-07-2024		
5/90465/1/CWWS018	**1**	**11-07-2024**	**37**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90465/1/CWWS018	**1**	**11-07-2024**	**37**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
10/90465/1/CWWS018	**1**	**11-07-2024**	**37**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VP	50 %	001839		Acceptable				16-07-2024		
1/90465/1/CWWS019	**1**	**16-07-2024**	**38**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	001859		Acceptable				30-07-2024		
5/90465/1/CWWS019	**1**	**16-07-2024**	**38**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	001860		Acceptable				30-07-2024		
6/90465/1/CWWS019	**1**	**16-07-2024**	**38**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	001861		Acceptable				30-07-2024		
10/90465/1/CWWS019	**1**	**16-07-2024**	**38**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	001862		Acceptable				30-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90465/1/CWWS026		**1**	**22-10-2024**	**454**	**AX427**			**PL**		**360,00 mm**	**25,00 mm**	**1/2V**	**1,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable						no scanning area	
2/90465/1/CWWS026		**1**	**25-07-2024**	**44**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM		50 %	001868		Acceptable					31-07-2024		
6/90465/1/CWWS026		**1**	**25-07-2024**	**44**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM		50 %	001870		Acceptable					31-07-2024		
7/90465/1/CWWS026		**1**	**24-10-2024**	**458**	**AX427**			**PL**		**360,00 mm**	**25,00 mm**	**V**	**0,340 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
8/90465/1/CWWS026		**1**	**02-10-2024**	**436**	**AX426**			**PL**		**136,80 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
9/90465/1/CWWS026		**1**	**02-10-2024**	**436**	**AX426**			**PL**		**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
1/90465/1/CWWS027		**1**	**22-10-2024**	**454**	**AX427**			**PL**		**360,00 mm**	**25,00 mm**	**1/2V**	**1,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable						no scanning area	
2/90465/1/CWWS027		**1**	**25-07-2024**	**44**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
6/90465/1/CWWS027		**1**	**25-07-2024**	**44**	**OB NM**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM		50 %	001869		Acceptable					31-07-2024		
7/90465/1/CWWS027		**1**	**25-10-2024**	**459**	**AX427**			**PL**		**360,00 mm**	**25,00 mm**	**V**	**0,340 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
8/90465/1/CWWS027		**1**	**02-10-2024**	**436**	**AX90**			**PL**		**136,70 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
9/90465/1/CWWS027		**1**	**02-10-2024**	**436**	**AX90**			**PL**		**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cont. / NOTE	Accept. Date
9/90465/1/CWWS027		**1**	**02-10-2024**	**436**	**AX90**		**PL**	**291,00 mm**	**15,00 mm**	**1/2V**	**0,260 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90465/1/CWWS028		**1**	**02-10-2024**	**436**	**AX426**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90465/1/CWWS028		**1**	**02-10-2024**	**436**	**AX426**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90465/1/CWWS028		**1**	**02-10-2024**	**436**	**AX426**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90465/1/CWWS028		**1**	**02-10-2024**	**436**	**AX426**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90465/1/CWWS028		**1**	**02-10-2024**	**436**	**AX426**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90465/1/CWWS029		**1**	**02-10-2024**	**436**	**AX90**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90465/1/CWWS029		**1**	**02-10-2024**	**436**	**AX90**		**PL**	**77,00 mm**	**10,00 mm**	**1/2V**	**0,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90465/1/CWWS029		**1**	**02-10-2024**	**436**	**AX90**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90465/1/CWWS029		**1**	**02-10-2024**	**436**	**AX90**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90465/1/CWWS029		**1**	**02-10-2024**	**436**	**AX90**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
5/90465/1/CWWS029	**1**	**02-10-2024**	**436**	**AX90**		**PL**	**128,00 mm**	**15,00 mm**	**1/2V**	**0,155 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**

Totals per DWG	**90465**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**8,92 m**	**30 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,92 m**	**30 Nr. Welds**
		Accepted	**8,92 m**	**30 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
1/90467/1/CWWS020	**0**	**17-07-2024**	**39**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001845		Acceptable				30-07-2024			
5/90467/1/CWWS020	**0**	**17-07-2024**	**39**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90467/1/CWWS020	**0**	**17-07-2024**	**39**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90467/1/CWWS020	**0**	**17-07-2024**	**39**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90467/1/CWWS021	**0**	**17-07-2024**	**39**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001846		Acceptable				30-07-2024			
5/90467/1/CWWS021	**0**	**17-07-2024**	**39**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90467/1/CWWS021	**0**	**17-07-2024**	**39**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90467/1/CWWS021	**0**	**17-07-2024**	**39**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90467/1/CWWS046		**0**	**29-07-2024**	**47**	**OB MA**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90467/1/CWWS046		**0**	**29-07-2024**	**47**	**OB MA**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001851		Acceptable				30-07-2024			
6/90467/1/CWWS046		**0**	**29-07-2024**	**47**	**OB MA**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001852		Acceptable				30-07-2024			
10/90467/1/CWWS046		**0**	**29-07-2024**	**47**	**OB MA**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90467/1/CWWS051		**0**	**18-07-2024**	**40**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90467/1/CWWS051		**0**	**18-07-2024**	**40**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90467/1/CWWS051		**0**	**29-07-2024**	**47**	**OB MA**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90467/1/CWWS051		**0**	**29-07-2024**	**47**	**OB MA**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90467/1/CWWS052	**0**	**18-07-2024**	**40**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001843		Acceptable					30-07-2024		
5/90467/1/CWWS052	**0**	**18-07-2024**	**40**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90467/1/CWWS052	**0**	**29-07-2024**	**47**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90467/1/CWWS052	**0**	**29-07-2024**	**47**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90467/1/CWWS053	**0**	**19-07-2024**	**41**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001841		Acceptable					30-07-2024		
5/90467/1/CWWS053	**0**	**19-07-2024**	**41**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001842		Acceptable					30-07-2024		
6/90467/1/CWWS053	**0**	**29-07-2024**	**47**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90467/1/CWWS053	**0**	**29-07-2024**	**47**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90467/1/CWWS054	**0**	**27-07-2024**	**46**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001847		Acceptable				30-07-2024		
5/90467/1/CWWS054	**0**	**27-07-2024**	**46**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001848		Acceptable				30-07-2024		
6/90467/1/CWWS054	**0**	**27-07-2024**	**46**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
10/90467/1/CWWS054	**0**	**27-07-2024**	**46**	**OB BM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90467/1/CWWS055	**0**	**27-07-2024**	**46**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001849		Acceptable				30-07-2024		
5/90467/1/CWWS055	**0**	**27-07-2024**	**46**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001850		Acceptable				30-07-2024		
6/90467/1/CWWS055	**0**	**27-07-2024**	**46**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
10/90467/1/CWWS055	**0**	**27-07-2024**	**46**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90467/1/CWWS075		**0**	**29-07-2024**	**47**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001853		Acceptable				30-07-2024			
5/90467/1/CWWS075		**0**	**29-07-2024**	**47**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	001854		Acceptable				30-07-2024			
6/90467/1/CWWS075		**0**	**29-07-2024**	**47**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90467/1/CWWS075		**0**	**29-07-2024**	**47**	**OB BM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90467/1/CWWS076		**0**	**27-07-2024**	**46**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90467/1/CWWS076		**0**	**27-07-2024**	**46**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90467/1/CWWS076		**0**	**27-07-2024**	**46**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90467/1/CWWS076		**0**	**27-07-2024**	**46**	**OB NM**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90467**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,40 m**	**40 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,40 m**	**40 Nr. Welds**
		Accepted	**6,40 m**	**40 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90468/1/CWWS001	**0**	**30-07-2024**	**49**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002050		Acceptable				05-08-2024		
3/90468/1/CWWS001	**0**	**30-07-2024**	**49**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90468/1/CWWS001	**0**	**30-07-2024**	**49**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002051		Acceptable				05-08-2024		
6/90468/1/CWWS001	**0**	**30-07-2024**	**49**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
8/90468/1/CWWS001	**0**	**09-10-2024**	**438**	**AX414**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **11-10-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90468/1/CWWS002	**0**	**01-08-2024**	**53**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002062		Acceptable				05-08-2024		
3/90468/1/CWWS002	**0**	**01-08-2024**	**53**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002063		Acceptable				05-08-2024		
4/90468/1/CWWS002	**0**	**01-08-2024**	**53**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002064		Acceptable				05-08-2024		
6/90468/1/CWWS002	**0**	**01-08-2024**	**53**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002065		Acceptable				05-08-2024		
12/90468/1/CWWS002	**0**	**01-08-2024**	**53**	**OB MA**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002066		Acceptable				05-08-2024		
16/90468/1/CWWS002	**0**	**01-08-2024**	**53**	**OB MA**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002067		Acceptable				05-08-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90468/1/CWWS022		**0**	**18-07-2024**	**40**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90468/1/CWWS022		**0**	**18-07-2024**	**40**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90468/1/CWWS022		**0**	**18-07-2024**	**40**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	001844		Acceptable					30-07-2024		
10/90468/1/CWWS022		**0**	**18-07-2024**	**40**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90468/1/CWWS055		**0**	**25-10-2024**	**459**	**AX427**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90468/1/CWWS067		**0**	**31-07-2024**	**50**	**OB MA**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,205 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002052		Acceptable					05-08-2024		
2/90468/1/CWWS067		**0**	**31-07-2024**	**50**	**OB MA**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,309 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002053		Acceptable					05-08-2024		
3/90468/1/CWWS067		**0**	**31-07-2024**	**50**	**OB MA**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002054		Acceptable					05-08-2024		
4/90468/1/CWWS067		**0**	**31-07-2024**	**50**	**OB MA**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,312 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90468/1/CWWS067		**0**	**31-07-2024**	**50**	**OB MA**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90468/1/CWWS067		**0**	**31-07-2024**	**50**	**OB MA**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,193 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90468/1/CWWS068		**0**	**31-07-2024**	**50**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,205 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002055		Acceptable					05-08-2024		
2/90468/1/CWWS068		**0**	**31-07-2024**	**50**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90468/1/CWWS068		**0**	**31-07-2024**	**50**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,309 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002056		Acceptable					05-08-2024		
1/90468/1/CWWS071		**0**	**31-07-2024**	**50**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,193 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90468/1/CWWS071		**0**	**31-07-2024**	**50**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,191 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90468/1/CWWS071		**0**	**31-07-2024**	**50**	**OB NM**			**PL**	**337,20 mm**	**10,00 mm**	**1/2V**	**0,312 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90468/1/CWWS072		**0**	**29-07-2024**	**48**	**OB BM**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90468/1/CWWS072		**0**	**29-07-2024**	**48**	**OB BM**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90468/1/CWWS072		**0**	**29-07-2024**	**48**	**OB BM**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90468/1/CWWS072		**0**	**29-07-2024**	**48**	**OB BM**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90468/1/CWWS073	**0**	**29-07-2024**	**48**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90468/1/CWWS073	**0**	**29-07-2024**	**48**	**OB MA**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90468/1/CWWS073	**0**	**29-07-2024**	**48**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90468/1/CWWS073	**0**	**29-07-2024**	**48**	**OB MA**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90468/1/CWWS075	**0**	**25-10-2024**	**459**	**AX427**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-10-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90468/1/CWWS076	**0**	**25-10-2024**	**459**	**AX427**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-10-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90468/1/CWWS076	**0**	**25-10-2024**	**459**	**AX427**			**PL**	**66,20 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**29-10-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
9/90468/1/CWWS082	**0**	**01-08-2024**	**53**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002068		Acceptable				05-08-2024		
13/90468/1/CWWS082	**0**	**01-08-2024**	**53**	**OB MA**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002069		Acceptable				05-08-2024		
1/90468/1/CWWS083	**0**	**09-10-2024**	**437**	**AX414**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
5/90468/1/CWWS083	**0**	**09-10-2024**	**437**	**AX414**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Totals per DWG	**90468**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**5,91 m**	**43 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,91 m**	**43 Nr. Welds**
		Accepted	**5,91 m**	**43 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90470/1/CWWS030	**0**	**01-08-2024**	**53**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **07-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002119		Acceptable				07-08-2024		
5/90470/1/CWWS030	**0**	**01-08-2024**	**53**	**OB NM**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **02-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90470/1/CWWS030	**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **07-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002115		Acceptable				07-08-2024		
10/90470/1/CWWS030	**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **02-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90470/1/CWWS031	**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **07-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002116		Acceptable				07-08-2024		
5/90470/1/CWWS031	**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **02-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90470/1/CWWS031	**0**	**01-08-2024**	**53**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **07-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002120		Acceptable				07-08-2024		
10/90470/1/CWWS031	**0**	**01-08-2024**	**53**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **07-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002121		Acceptable				07-08-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90470/1/CWWS032		**0**	**01-08-2024**	**53**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90470/1/CWWS032		**0**	**01-08-2024**	**53**	**OB NM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90470/1/CWWS032		**0**	**24-07-2024**	**51**	**OB ML**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002134		Acceptable					07-08-2024		
10/90470/1/CWWS032		**0**	**24-07-2024**	**51**	**OB ML**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002135		Acceptable					07-08-2024		
1/90470/1/CWWS059		**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002117		Acceptable					07-08-2024		
5/90470/1/CWWS059		**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90470/1/CWWS059		**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002118		Acceptable					07-08-2024		
10/90470/1/CWWS059		**0**	**31-07-2024**	**52**	**OB ML**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90470/1/CWWS066		**0**	**03-08-2024**	**54**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90470/1/CWWS066		**0**	**03-08-2024**	**54**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90470/1/CWWS066		**0**	**03-08-2024**	**54**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002122		Acceptable					07-08-2024		
6/90470/1/CWWS066		**0**	**03-08-2024**	**54**	**OB MA**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	DEM	50 %	002123		Acceptable					07-08-2024		
12/90470/1/CWWS066		**0**	**09-10-2024**	**438**	**AX410**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
16/90470/1/CWWS066		**0**	**09-10-2024**	**438**	**AX410**			**PL**	**66,30 mm**	**10,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90470/1/CWWS077		**0**	**22-10-2024**	**454**	**AX413**			**PL**	**360,00 mm**	**25,00 mm**	**V**	**0,360 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90470/1/CWWS077		**0**	**24-07-2024**	**51**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002136		Acceptable					07-08-2024		
7/90470/1/CWWS077		**0**	**24-07-2024**	**51**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90470/1/CWWS078		**0**	**22-10-2024**	**454**	**AX413**			**PL**	**360,00 mm**	**25,00 mm**	**V**	**0,360 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-10-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90470/1/CWWS078		**0**	**24-07-2024**	**51**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002133		Acceptable					07-08-2024		
7/90470/1/CWWS078		**0**	**24-07-2024**	**51**	**OB BM**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90470/1/CWWS080		**0**	**24-07-2024**	**51**	**OB ML**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002131		Acceptable					07-08-2024		
5/90470/1/CWWS080		**0**	**24-07-2024**	**51**	**OB ML**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002132		Acceptable					07-08-2024		
6/90470/1/CWWS080		**0**	**01-08-2024**	**53**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	DEM	50 %	002130		Acceptable					07-08-2024		
10/90470/1/CWWS080		**0**	**01-08-2024**	**53**	**OB MA**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90470/1/CWWS081		**0**	**03-08-2024**	**54**	**OB BM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**07-08-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	002124		Acceptable				07-08-2024		
5/90470/1/CWWS081		**0**	**03-08-2024**	**54**	**OB BM**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-08-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
9/90470/1/CWWS083		**0**	**09-10-2024**	**437**	**AX410**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						
13/90470/1/CWWS083		**0**	**09-10-2024**	**437**	**AX410**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**10-10-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90470**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**7,30 m**	**36 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,30 m**	**36 Nr. Welds**
		Accepted	**7,30 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90471/1/CWWS006		**0**	**30-07-2024**	**39**	**OB NM**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90471/1/CWWS006		**0**	**31-07-2024**	**40**	**OB NM**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90471/1/CWWS007		**0**	**30-07-2024**	**39**	**OB BM**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90471/1/CWWS007		**0**	**31-07-2024**	**40**	**OB BM**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002043		Acceptable					05-08-2024		
1/90471/1/CWWS010		**0**	**05-08-2024**	**44**	**OB MA**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002143		Acceptable					07-08-2024		
2/90471/1/CWWS010		**0**	**09-10-2024**	**435**	**AX410**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	002387		Acceptable					10-10-2024		
1/90471/1/CWWS011		**0**	**05-08-2024**	**44**	**OB BM**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002144		Acceptable					07-08-2024		
2/90471/1/CWWS011		**0**	**09-10-2024**	**435**	**AX410**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	002388		Acceptable					10-10-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90471/1/CWWS016	**0**	**30-07-2024**	**39**	**OB MA**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90471/1/CWWS016	**0**	**31-07-2024**	**40**	**OB MA**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90471**	**Prefabrication**	**6,88 m**	**8 Nr. Welds**
		Erection	**1,72 m**	**2 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,60 m**	**10 Nr. Welds**
		Accepted	**8,60 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90472/1/CWWS004		**0**	**30-07-2024**	**49**	**OB MA**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90472/1/CWWS004		**0**	**31-07-2024**	**50**	**OB MA**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002047		Acceptable					05-08-2024		
1/90472/1/CWWS005		**0**	**30-07-2024**	**49**	**OB MA**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90472/1/CWWS005		**0**	**31-07-2024**	**50**	**OB MA**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002048		Acceptable					05-08-2024		
1/90472/1/CWWS013		**0**	**05-08-2024**	**55**	**OB NM**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	DEM	50 %	002146		Acceptable					07-08-2024		
2/90472/1/CWWS013		**0**	**09-10-2024**	**435**	**AX414**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	002389		Acceptable					10-10-2024		
1/90472/1/CWWS014		**0**	**05-08-2024**	**55**	**OB BM**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90472/1/CWWS014		**0**	**09-10-2024**	**435**	**AX414**			**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	002390		Acceptable					10-10-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90472/1/CWWS015		**0**	**30-07-2024**	**49**	**OB NM**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	002044		Acceptable				05-08-2024		
2/90472/1/CWWS015		**0**	**31-07-2024**	**50**	**OB NM**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	002049		Acceptable				05-08-2024		

Totals per DWG	**90472**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**8,60 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,60 m**	**10 Nr. Welds**
		Accepted	**8,60 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90473/1/CWWS008		**0**	**30-07-2024**	**49**	**OB BM**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	002045		Acceptable					05-08-2024		
2/90473/1/CWWS008		**0**	**30-07-2024**	**49**	**OB BM**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	002046		Acceptable					05-08-2024		
1/90473/1/CWWS057		**0**	**30-07-2024**	**49**	**OB BM**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90473/1/CWWS057		**0**	**31-07-2024**	**50**	**OB BM**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90473**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**3,40 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,40 m**	**4 Nr. Welds**
		Accepted	**3,40 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90474/1/CWWS017		**0**	**05-08-2024**	**55**	**OB NM**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90474/1/CWWS017		**0**	**09-10-2024**	**435**	**AX410**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	50 %	002391		Acceptable					10-10-2024		
1/90474/1/CWWS058		**0**	**05-08-2024**	**55**	**OB BM**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90474/1/CWWS058		**0**	**05-08-2024**	**55**	**OB NM**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90474**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,40 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,40 m**	**4 Nr. Welds**
		Accepted	**3,40 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90475/1/CWWS009		**0**	**30-07-2024**	**49**	**OB NM**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90475/1/CWWS009		**0**	**31-07-2024**	**50**	**OB NM**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	DEM	50 %	002057		Acceptable				05-08-2024			
1/90475/1/CWWS012		**0**	**05-08-2024**	**55**	**OB MA**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	DEM	50 %	002145		Acceptable				07-08-2024			
2/90475/1/CWWS012		**0**	**09-10-2024**	**435**	**AX414**		**PIPE**	**273,10 mm**	**11,10 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-10-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	50 %	002392		Acceptable				10-10-2024			
1/90475/1/CWWS056		**0**	**30-07-2024**	**49**	**OB BM**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90475/1/CWWS056		**0**	**31-07-2024**	**50**	**OB BM**		**PIPE**	**219,10 mm**	**8,20 mm**	**1/2V**	**0,835 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90475**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**5,12 m**	**6 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,12 m**	**6 Nr. Welds**
		Accepted	**5,12 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90477/1/CWTP001		**0**	**27-07-2024**	**57**	**FCBD**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002083		Acceptable				29-07-2024			
2/90477/1/CWTP001		**0**	**27-07-2024**	**57**	**FCCG**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002084		Acceptable				29-07-2024			
7/90477/1/CWTP001		**0**	**29-07-2024**	**60**	**FCBD**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001926		Acceptable				31-07-2024			
8/90477/1/CWTP001		**0**	**29-07-2024**	**60**	**FCBD**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001927		Acceptable				31-07-2024			
9/90477/1/CWTP001		**0**	**22-04-2025**	**62**	**OM115**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,512 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002751		Acceptable				23-04-2025			
10/90477/1/CWTP001		**0**	**13-06-2024**	**24**	**FCMA**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	002085		Acceptable				11-07-2024			
11/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBC FCBF**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,512 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	001818		Acceptable				13-06-2024			
12/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001730		Acceptable				11-07-2024			
13/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001739		Acceptable				11-07-2024			
14/90477/1/CWTP001		**0**	**26-07-2024**	**59**	**FCCG**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001959		Acceptable				29-07-2024			
15/90477/1/CWTP001		**0**	**26-07-2024**	**59**	**FCCG**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001960		Acceptable				29-07-2024			
16/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
16/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**			**PL**		**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	001743		Acceptable				11-07-2024			
17/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**			**PL**		**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	001745		Acceptable				11-07-2024			
18/90477/1/CWTP001		**0**	**30-07-2024**	**61**	**FCBD**			**PL**		**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	002086		Acceptable				02-08-2024			
19/90477/1/CWTP001		**0**	**26-07-2024**	**59**	**FCCG**			**PL**		**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	001961		Acceptable				29-07-2024			
20/90477/1/CWTP001		**0**	**27-07-2024**	**57**	**FCCG**			**PL**		**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	001964		Acceptable				29-07-2024			
21/90477/1/CWTP001		**0**	**31-07-2024**	**62**	**FCBD**			**PL**		**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	002087		Acceptable				05-08-2024			
22/90477/1/CWTP001		**0**	**31-07-2024**	**62**	**FCBD**			**PL**		**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	002088		Acceptable				05-08-2024			
23/90477/1/CWTP001		**0**	**31-07-2024**	**62**	**FCBD**			**PL**		**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	002089		Acceptable				05-08-2024			
24/90477/1/CWTP001		**0**	**31-07-2024**	**62**	**FCBD**			**PL**		**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	002090		Acceptable				05-08-2024			
25/90477/1/CWTP001		**0**	**05-08-2024**	**64**	**FCCG**			**PL**		**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	002092		Acceptable				07-08-2024			
26/90477/1/CWTP001		**0**	**05-08-2024**	**64**	**FCCG**			**PL**		**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM		100 %	002093		Acceptable				07-08-2024			
27/90477/1/CWTP001		**0**	**05-08-2024**	**64**	**FCCG**			**PL**		**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
27/90477/1/CWTP001	**0**	**05-08-2024**	**64**	**FCCG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002094		Acceptable				07-08-2024		
28/90477/1/CWTP001	**0**	**31-07-2024**	**62**	**FCCG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002091		Acceptable				05-08-2024		
29/90477/1/CWTP001	**0**	**22-07-2024**	**50**	**FCBI**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001907		Acceptable				24-07-2024		
30/90477/1/CWTP001	**0**	**22-07-2024**	**50**	**FCBI**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001908		Acceptable				24-07-2024		
31/90477/1/CWTP001	**0**	**27-07-2024**	**57**	**FCCG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002106		Acceptable				29-07-2024		
32/90477/1/CWTP001	**0**	**27-07-2024**	**57**	**FCCG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001965		Acceptable				29-07-2024		
33/90477/1/CWTP001	**0**	**22-07-2024**	**50**	**FCBI**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001942		Acceptable				24-07-2024		
34/90477/1/CWTP001	**0**	**22-07-2024**	**50**	**FCBI**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001943		Acceptable				24-07-2024		
35/90477/1/CWTP001	**0**	**27-07-2024**	**57**	**FCBD**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001966		Acceptable				29-07-2024		
36/90477/1/CWTP001	**0**	**27-07-2024**	**57**	**FCBD**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001967		Acceptable				29-07-2024		
68/90477/1/CWTP001	**0**	**07-06-2024**	**15**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001746		Acceptable				11-07-2024		
69/90477/1/CWTP001	**0**	**07-06-2024**	**15**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
69/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001747		Acceptable				11-07-2024			
70/90477/1/CWTP001		**0**	**26-07-2024**	**59**	**FCBD**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001962		Acceptable				29-07-2024			
71/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001748		Acceptable				11-07-2024			
72/90477/1/CWTP001		**0**	**07-06-2024**	**15**	**FCBF**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001750		Acceptable				11-07-2024			
73/90477/1/CWTP001		**0**	**30-07-2024**	**61**	**FCBD**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002095		Acceptable				02-08-2024			
74/90477/1/CWTP001		**0**	**26-07-2024**	**59**	**FCBD**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001963		Acceptable				29-07-2024			
75/90477/1/CWTP001		**0**	**26-07-2024**	**59**	**FCBD**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001993		Acceptable				30-07-2024			
82/90477/1/CWTP001		**0**	**26-07-2024**	**59**	**FCCG**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001998		Acceptable				30-07-2024			
83/90477/1/CWTP001		**0**	**16-05-2024**	**6**	**SID_CW**		**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**0,950 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**06-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BRM	100 %	001809		Acceptable				28-05-2024			
84/90477/1/CWTP001		**0**	**17-05-2024**	**7**	**SID_CW**		**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**1,260 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**06-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BRM	100 %	001808		Acceptable				28-05-2024			

Totals per DWG	**90477**	**Prefabrication**	**36,09 m**	**42 Nr. Welds**
		Erection	**2,51 m**	**1 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**38,60 m**	**43 Nr. Welds**
		Accepted	**38,60 m**	**43 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
3/90478/1/CWTP001		**0**	**29-05-2024**	**6**	**FCMA**			**PL**	**1.265,10 mm**	**65,00 mm**	**K**	**1,200 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002096		Acceptable				13-06-2024			
4/90478/1/CWTP001		**0**	**29-05-2024**	**6**	**FCMA**			**PL**	**805,00 mm**	**65,00 mm**	**K**	**1,265 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002097		Acceptable				13-06-2024			
5/90478/1/CWTP001		**0**	**18-07-2024**	**46**	**FCCG**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,210 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002102		Acceptable				22-07-2024			
6/90478/1/CWTP001		**0**	**16-07-2024**	**41**	**FCCG**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,800 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002103		Acceptable				19-07-2024			
37/90478/1/CWTP001		**0**	**18-07-2024**	**46**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,766 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001912		Acceptable				24-07-2024			
38/90478/1/CWTP001		**0**	**18-07-2024**	**46**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,059 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001913		Acceptable				24-07-2024			
39/90478/1/CWTP001		**0**	**18-07-2024**	**46**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,617 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001914		Acceptable				24-07-2024			
40/90478/1/CWTP001		**0**	**23-07-2024**	**51**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001950		Acceptable				25-07-2024			
41/90478/1/CWTP001		**0**	**23-07-2024**	**51**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001951		Acceptable				25-07-2024			
42/90478/1/CWTP001		**0**	**08-07-2024**	**37**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**25-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002104		Acceptable				16-07-2024			
43/90478/1/CWTP001		**0**	**27-06-2024**	**30**	**FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001915		Acceptable				24-07-2024			
44/90478/1/CWTP001		**0**	**22-07-2024**	**47**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,765 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**24-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
44/90478/1/CWTP001	**0**	**22-07-2024**	**47**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,765 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001916		Acceptable				24-07-2024		
45/90478/1/CWTP001	**0**	**22-07-2024**	**47**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,059 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001917		Acceptable				24-07-2024		
46/90478/1/CWTP001	**0**	**22-07-2024**	**47**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,617 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001918		Acceptable				24-07-2024		
47/90478/1/CWTP001	**0**	**23-07-2024**	**51**	**FCBD**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001952		Acceptable				25-07-2024		
48/90478/1/CWTP001	**0**	**23-07-2024**	**51**	**FCBD**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001953		Acceptable				25-07-2024		
49/90478/1/CWTP001	**0**	**10-07-2024**	**38**	**FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**25-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002105		Acceptable				16-07-2024		
50/90478/1/CWTP001	**0**	**28-06-2024**	**29**	**FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001935		Acceptable				11-07-2024		
51/90478/1/CWTP001	**0**	**21-06-2024**	**27**	**FCCG**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002098		Acceptable				09-07-2024		
52/90478/1/CWTP001	**0**	**25-06-2024**	**28**	**FCCG**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002099		Acceptable				09-07-2024		
53/90478/1/CWTP001	**0**	**21-06-2024**	**27**	**FCCG**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002100		Acceptable				09-07-2024		
54/90478/1/CWTP001	**0**	**25-06-2024**	**28**	**FCCG**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002101		Acceptable				09-07-2024		
67/90478/1/CWTP001	**0**	**18-06-2024**	**22**	**FCHG**			**PL**	**750,00 mm**	**20,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
67/90478/1/CWTP001		**0**	**18-06-2024**	**22**	**FCHG**		**PL**	**750,00 mm**	**20,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001821		Acceptable					19-06-2024		

Totals per DWG	**90478**	**Prefabrication**	**41,19 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**41,19 m**	**23 Nr. Welds**
		Accepted	**41,19 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90480/1/CWTP002		**0**	**26-07-2024**	**59**	**FCBI**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002070		Acceptable					29-07-2024		
2/90480/1/CWTP002		**0**	**26-07-2024**	**59**	**FCMA**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002072		Acceptable					29-07-2024		
5/90480/1/CWTP002		**0**	**29-07-2024**	**60**	**FCMA**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001928		Acceptable					31-07-2024		
6/90480/1/CWTP002		**0**	**29-07-2024**	**60**	**FCBI**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001929		Acceptable					31-07-2024		
8/90480/1/CWTP002		**0**	**16-04-2025**	**61**	**OM115**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,592 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-04-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002749		Acceptable					17-04-2025		
9/90480/1/CWTP002		**0**	**19-06-2024**	**21**	**FCMA**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,512 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	002071		Acceptable					24-07-2024		
10/90480/1/CWTP002		**0**	**11-06-2024**	**18**	**FCBC FCBF**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,592 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	001819		Acceptable					13-06-2024		
11/90480/1/CWTP002		**0**	**05-06-2024**	**16**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001753		Acceptable					11-07-2024		
12/90480/1/CWTP002		**0**	**05-06-2024**	**16**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001756		Acceptable					11-07-2024		
13/90480/1/CWTP002		**0**	**24-07-2024**	**55**	**FCMA**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001954		Acceptable					26-07-2024		
14/90480/1/CWTP002		**0**	**26-07-2024**	**59**	**FCMA**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002022		Acceptable					30-07-2024		
15/90480/1/CWTP002		**0**	**05-06-2024**	**16**	**FCBF**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
15/90480/1/CWTP002	**0**	**05-06-2024**	**16**	**FCBF**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001758		Acceptable				11-07-2024		
16/90480/1/CWTP002	**0**	**05-06-2024**	**16**	**FCBF**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001759		Acceptable				11-07-2024		
17/90480/1/CWTP002	**0**	**29-07-2024**	**60**	**FCMA**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001930		Acceptable				31-07-2024		
18/90480/1/CWTP002	**0**	**24-07-2024**	**55**	**FCMA**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001955		Acceptable				26-07-2024		
19/90480/1/CWTP002	**0**	**26-07-2024**	**59**	**FCMA**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002023		Acceptable				30-07-2024		
20/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCCG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002026		Acceptable				02-08-2024		
21/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCCG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002027		Acceptable				02-08-2024		
22/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCCG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002028		Acceptable				02-08-2024		
23/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCCG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002029		Acceptable				02-08-2024		
24/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCMA**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002030		Acceptable				02-08-2024		
25/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCMA**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002031		Acceptable				02-08-2024		
26/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCMA**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
26/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCMA**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002032		Acceptable				02-08-2024		
27/90480/1/CWTP002	**0**	**30-07-2024**	**61**	**FCMA**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002033		Acceptable				02-08-2024		
28/90480/1/CWTP002	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002080		Acceptable				24-07-2024		
29/90480/1/CWTP002	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001944		Acceptable				24-07-2024		
30/90480/1/CWTP002	**0**	**25-07-2024**	**56**	**FCMA**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002081		Acceptable				27-07-2024		
31/90480/1/CWTP002	**0**	**27-07-2024**	**57**	**FCMA**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001968		Acceptable				29-07-2024		
32/90480/1/CWTP002	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001945		Acceptable				24-07-2024		
33/90480/1/CWTP002	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001947		Acceptable				24-07-2024		
34/90480/1/CWTP002	**0**	**25-07-2024**	**56**	**FCMA**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002082		Acceptable				27-07-2024		
35/90480/1/CWTP002	**0**	**27-07-2024**	**57**	**FCBI**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001969		Acceptable				29-07-2024		
67/90480/1/CWTP002	**0**	**05-06-2024**	**16**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001760		Acceptable				11-07-2024		
68/90480/1/CWTP002	**0**	**05-06-2024**	**16**	**FCBF**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
68/90480/1/CWTP002		**0**	**05-06-2024**	**16**	**FCBF**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001761		Acceptable				11-07-2024			
69/90480/1/CWTP002		**0**	**26-07-2024**	**59**	**FCMA**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002024		Acceptable				30-07-2024			
70/90480/1/CWTP002		**0**	**05-06-2024**	**16**	**FCBF**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001762		Acceptable				11-07-2024			
71/90480/1/CWTP002		**0**	**05-06-2024**	**16**	**FCBF**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001763		Acceptable				11-07-2024			
72/90480/1/CWTP002		**0**	**29-07-2024**	**60**	**FCMA**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001931		Acceptable				31-07-2024			
73/90480/1/CWTP002		**0**	**24-07-2024**	**55**	**FCMA**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001956		Acceptable				26-07-2024			
74/90480/1/CWTP002		**0**	**26-07-2024**	**59**	**FCMA**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002025		Acceptable				30-07-2024			
81/90480/1/CWTP002		**0**	**24-07-2024**	**55**	**FCMA**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001957		Acceptable				26-07-2024			
82/90480/1/CWTP002		**0**	**22-05-2024**	**49**	**FCCG**		**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**1,260 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**24-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BRM	100 %	001810		Acceptable				28-05-2024			
83/90480/1/CWTP002		**0**	**18-05-2024**	**5**	**SID_CW**		**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**0,950 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**06-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BRM	100 %	001811		Acceptable				28-05-2024			

Totals per DWG	**90480**	**Prefabrication**	**36,09 m**	**42 Nr. Welds**
		Erection	**2,59 m**	**1 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**38,68 m**	**43 Nr. Welds**
		Accepted	**38,68 m**	**43 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
3/90481/1/CWTP002		**0**	**07-06-2024**	**7**	**FCMA**			**PL**	**1.265,10 mm**	**65,00 mm**	**K**	**1,200 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	001816		Acceptable				11-06-2024			
4/90481/1/CWTP002		**0**	**07-06-2024**	**7**	**FCMA**			**PL**	**805,10 mm**	**65,00 mm**	**K**	**1,265 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	001817		Acceptable				11-06-2024			
7/90481/1/CWTP002		**0**	**18-07-2024**	**46**	**FCBD FCBC**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,210 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	001910		Acceptable				24-07-2024			
36/90481/1/CWTP002		**0**	**10-07-2024**	**38**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001786		Acceptable				16-07-2024			
37/90481/1/CWTP002		**0**	**10-07-2024**	**38**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,825 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001787		Acceptable				16-07-2024			
38/90481/1/CWTP002		**0**	**10-07-2024**	**38**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001788		Acceptable				16-07-2024			
39/90481/1/CWTP002		**0**	**08-07-2024**	**37**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001789		Acceptable				16-07-2024			
40/90481/1/CWTP002		**0**	**08-07-2024**	**37**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001790		Acceptable				16-07-2024			
41/90481/1/CWTP002		**0**	**08-07-2024**	**37**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001791		Acceptable				16-07-2024			
42/90481/1/CWTP002		**0**	**11-07-2024**	**39**	**FCHG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001792		Acceptable				16-07-2024			

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Welding Register

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ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
42/90481/1/CWTP002		**0**	**11-07-2024**	**39**	**FCHG**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001780		Acceptable					16-07-2024		
43/90481/1/CWTP002		**0**	**08-07-2024**	**35**	**FCBD FCBC**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001780		Acceptable					16-07-2024		
44/90481/1/CWTP002		**0**	**08-07-2024**	**35**	**FCBD FCBC**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,825 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001781		Acceptable					16-07-2024		
45/90481/1/CWTP002		**0**	**08-07-2024**	**35**	**FCBD FCBC**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001782		Acceptable					16-07-2024		
46/90481/1/CWTP002		**0**	**08-07-2024**	**35**	**FCBD FCBC**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001783		Acceptable					16-07-2024		
47/90481/1/CWTP002		**0**	**08-06-2024**	**31**	**FCBD FCBC**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001784		Acceptable					16-07-2024		
48/90481/1/CWTP002		**0**	**08-07-2024**	**35**	**FCBD FCBC**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001785		Acceptable					16-07-2024		
49/90481/1/CWTP002		**0**	**12-07-2024**	**40**	**FCHG**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001793		Acceptable					16-07-2024		
50/90481/1/CWTP002		**0**	**27-06-2024**	**30**	**FCBD**		**PL**		**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001893		Acceptable					04-07-2024		
51/90481/1/CWTP002		**0**	**27-06-2024**	**30**	**FCBD**		**PL**		**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001894		Acceptable					04-07-2024		
52/90481/1/CWTP002		**0**	**27-06-2024**	**30**	**FCBD**		**PL**		**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**

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Welding Register

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Client CRWIND CROSSWIND
Discipline ST Structure

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ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
52/90481/1/CWTP002		**0**	**27-06-2024**	**30**	**FCBD**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001895		Acceptable					04-07-2024		
53/90481/1/CWTP002		**0**	**27-06-2024**	**30**	**FCBD**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001896		Acceptable					04-07-2024		
66/90481/1/CWTP002		**0**	**17-06-2024**	**23**	**FCHG**			**PL**	**750,00 mm**	**20,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001822		Acceptable					19-06-2024		
84/90481/1/CWTP002		**0**	**22-07-2024**	**47**	**FCBD FCBC**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,800 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**T**	**24-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	001911		Acceptable					24-07-2024		

Totals per DWG	**90481**	**Prefabrication**	**41,19 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**41,19 m**	**23 Nr. Welds**
		Accepted	**41,19 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90483/1/CWTP003		**0**	**09-08-2024**	**72**	**FCBF**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VOI	100 %	002189		Acceptable				13-08-2024			
2/90483/1/CWTP003		**0**	**09-08-2024**	**72**	**FCPS**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	VOI	100 %	002190		Acceptable				13-08-2024			
5/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCBF**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002171		Acceptable				09-08-2024			
6/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCPS**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002172		Acceptable				09-08-2024			
8/90483/1/CWTP003		**0**	**22-04-2025**	**62**	**OM115**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,592 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-04-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002750		Acceptable				23-04-2025			
9/90483/1/CWTP003		**0**	**04-07-2024**	**36**	**FCPS**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,512 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	002109		Acceptable				08-07-2024			
10/90483/1/CWTP003		**0**	**20-06-2024**	**26**	**FCPS**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	002110		Acceptable				08-07-2024			
11/90483/1/CWTP003		**0**	**04-06-2024**	**13**	**FCBI**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001764		Acceptable				11-07-2024			
12/90483/1/CWTP003		**0**	**04-06-2024**	**13**	**FCBI**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001765		Acceptable				11-07-2024			
13/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002162		Acceptable				09-08-2024			
14/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002163		Acceptable				09-08-2024			
15/90483/1/CWTP003		**0**	**04-06-2024**	**13**	**FCBI**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
15/90483/1/CWTP003	**0**	**04-06-2024**	**13**	**FCBI**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001766		Acceptable				11-07-2024		
16/90483/1/CWTP003	**0**	**04-06-2024**	**13**	**FCBI**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001767		Acceptable				11-07-2024		
17/90483/1/CWTP003	**0**	**06-08-2024**	**71**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002111		Acceptable				09-08-2024		
18/90483/1/CWTP003	**0**	**07-08-2024**	**69**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002164		Acceptable				09-08-2024		
19/90483/1/CWTP003	**0**	**07-08-2024**	**69**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002165		Acceptable				09-08-2024		
20/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCPS**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002179		Acceptable				13-08-2024		
21/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCPS**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002180		Acceptable				13-08-2024		
22/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCPS**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002181		Acceptable				13-08-2024		
23/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCPS**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002182		Acceptable				13-08-2024		
24/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCBF**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002183		Acceptable				13-08-2024		
25/90483/1/CWTP003	**0**	**09-08-2024**	**72**	**FCBF**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002184		Acceptable				13-08-2024		
26/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCBF**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
26/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCBF**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002185		Acceptable				13-08-2024		
27/90483/1/CWTP003	**0**	**10-08-2024**	**73**	**FCBF**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002186		Acceptable				13-08-2024		
28/90483/1/CWTP003	**0**	**29-07-2024**	**60**	**FCPS**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002154		Acceptable				01-08-2024		
29/90483/1/CWTP003	**0**	**29-07-2024**	**60**	**FCPS**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002155		Acceptable				01-08-2024		
30/90483/1/CWTP003	**0**	**09-08-2024**	**72**	**FCPS**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002187		Acceptable				13-08-2024		
31/90483/1/CWTP003	**0**	**07-08-2024**	**69**	**FCPS**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002166		Acceptable				09-08-2024		
32/90483/1/CWTP003	**0**	**29-07-2024**	**60**	**FCBF**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002156		Acceptable				01-08-2024		
33/90483/1/CWTP003	**0**	**29-07-2024**	**60**	**FCBF**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002157		Acceptable				01-08-2024		
34/90483/1/CWTP003	**0**	**09-08-2024**	**72**	**FCBF**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VOI	100 %	002188		Acceptable				13-08-2024		
35/90483/1/CWTP003	**0**	**07-08-2024**	**69**	**FCBF**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002167		Acceptable				09-08-2024		
67/90483/1/CWTP003	**0**	**05-06-2024**	**16**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001768		Acceptable				11-07-2024		
68/90483/1/CWTP003	**0**	**05-06-2024**	**16**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
68/90483/1/CWTP003		**0**	**05-06-2024**	**16**	**FCPS**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001769		Acceptable				11-07-2024			
69/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCBF**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002168		Acceptable				09-08-2024			
70/90483/1/CWTP003		**0**	**05-06-2024**	**16**	**FCPS**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001770		Acceptable				11-07-2024			
71/90483/1/CWTP003		**0**	**05-06-2024**	**16**	**FCPS**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001771		Acceptable				11-07-2024			
72/90483/1/CWTP003		**0**	**06-08-2024**	**71**	**FCBF**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002176		Acceptable				09-08-2024			
73/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCBF**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002169		Acceptable				09-08-2024			
74/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCBF**		**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002153		Acceptable				09-08-2024			
81/90483/1/CWTP003		**0**	**07-08-2024**	**69**	**FCBF**		**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002170		Acceptable				09-08-2024			
82/90483/1/CWTP003		**0**	**23-05-2024**	**48**	**FCCG**		**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**1,260 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**24-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BRM	100 %	001812		Acceptable				28-05-2024			
83/90483/1/CWTP003		**0**	**20-05-2024**	**4**	**SID_CW**		**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**0,950 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**08-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BRM	100 %	001813		Acceptable				31-07-2024			

Totals per DWG	**90483**	**Prefabrication**	**36,09 m**	**42 Nr. Welds**
		Erection	**2,59 m**	**1 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**38,68 m**	**43 Nr. Welds**
		Accepted	**38,68 m**	**43 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
3/90484/1/CWTP003		**0**	**20-06-2024**	**26**	**FCPS**			**PL**	**1.265,10 mm**	**65,00 mm**	**K**	**1,200 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002107		Acceptable				08-07-2024			
4/90484/1/CWTP003		**0**	**20-06-2024**	**26**	**FCPS**			**PL**	**805,00 mm**	**65,00 mm**	**K**	**1,265 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002108		Acceptable				08-07-2024			
7/90484/1/CWTP003		**0**	**02-08-2024**	**67**	**FCBC FCBF**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,210 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002173		Acceptable				09-08-2024			
36/90484/1/CWTP003		**0**	**29-07-2024**	**60**	**FCBC FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,766 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**01-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002158		Acceptable				01-08-2024			
37/90484/1/CWTP003		**0**	**29-07-2024**	**60**	**FCBC FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,825 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**01-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002159		Acceptable				01-08-2024			
38/90484/1/CWTP003		**0**	**29-07-2024**	**60**	**FCBC FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**01-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002160		Acceptable				01-08-2024			
39/90484/1/CWTP003		**0**	**30-07-2024**	**65**	**FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002112		Acceptable				09-08-2024			
40/90484/1/CWTP003		**0**	**30-07-2024**	**65**	**FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002113		Acceptable				09-08-2024			
41/90484/1/CWTP003		**0**	**29-07-2024**	**60**	**FCBC FCVU**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**01-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002161		Acceptable				01-08-2024			
42/90484/1/CWTP003		**0**	**19-07-2024**	**54**	**FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002177		Acceptable				26-07-2024			
43/90484/1/CWTP003		**0**	**30-07-2024**	**65**	**FCBC FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,765 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-08-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
43/90484/1/CWTP003		**0**	**30-07-2024**	**65**	**FCBC FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,765 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002147		Acceptable					09-08-2024		
44/90484/1/CWTP003		**0**	**30-07-2024**	**65**	**FCBC FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,825 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002148		Acceptable					09-08-2024		
45/90484/1/CWTP003		**0**	**30-07-2024**	**65**	**FCBC FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002149		Acceptable					09-08-2024		
46/90484/1/CWTP003		**0**	**31-07-2024**	**66**	**FCPS**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002150		Acceptable					09-08-2024		
47/90484/1/CWTP003		**0**	**31-07-2024**	**66**	**FCPS**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002151		Acceptable					09-08-2024		
48/90484/1/CWTP003		**0**	**31-07-2024**	**66**	**FCBC FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002152		Acceptable					09-08-2024		
49/90484/1/CWTP003		**0**	**19-07-2024**	**54**	**FCBF**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002178		Acceptable					26-07-2024		
50/90484/1/CWTP003		**0**	**17-07-2024**	**42**	**FCPS**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001936		Acceptable					19-07-2024		
51/90484/1/CWTP003		**0**	**17-07-2024**	**42**	**FCPS**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001937		Acceptable					19-07-2024		
52/90484/1/CWTP003		**0**	**17-07-2024**	**42**	**FCPS**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001938		Acceptable					19-07-2024		
53/90484/1/CWTP003		**0**	**17-07-2024**	**42**	**FCPS**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
53/90484/1/CWTP003		**0**	**17-07-2024**	**42**	**FCPS**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001939		Acceptable				19-07-2024		
66/90484/1/CWTP003		**0**	**12-07-2024**	**52**	**FCBF**			**PL**	**750,00 mm**	**20,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	002175		Acceptable				26-07-2024		
84/90484/1/CWTP003		**0**	**05-08-2024**	**68**	**FCBC FCBF**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,800 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**T**	**09-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	BRM	100 %	002174		Acceptable				09-08-2024		

Totals per DWG	**90484**	**Prefabrication**	**41,13 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**41,13 m**	**23 Nr. Welds**
		Accepted	**41,13 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90486/1/CWTP004		**0**	**29-07-2024**	**60**	**FCHG**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002073		Acceptable				31-07-2024			
2/90486/1/CWTP004		**0**	**29-07-2024**	**60**	**FCHG**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BRM	100 %	002074		Acceptable				31-07-2024			
7/90486/1/CWTP004		**0**	**29-07-2024**	**60**	**FCCG**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001932		Acceptable				31-07-2024			
8/90486/1/CWTP004		**0**	**29-07-2024**	**60**	**FCCG**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001933		Acceptable				31-07-2024			
9/90486/1/CWTP004		**0**	**16-04-2025**	**61**	**OM115**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,512 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-04-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002748		Acceptable				17-04-2025			
10/90486/1/CWTP004		**0**	**17-06-2024**	**23**	**FCBF**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,592 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	002075		Acceptable				19-06-2024			
11/90486/1/CWTP004		**0**	**12-06-2024**	**19**	**FCBC FCBF**			**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,512 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BRM	100 %	001820		Acceptable				13-06-2024			
12/90486/1/CWTP004		**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001772		Acceptable				11-07-2024			
13/90486/1/CWTP004		**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001773		Acceptable				11-07-2024			
14/90486/1/CWTP004		**0**	**27-07-2024**	**57**	**FCHG**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001970		Acceptable				29-07-2024			
15/90486/1/CWTP004		**0**	**27-07-2024**	**57**	**FCHG**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001971		Acceptable				29-07-2024			
16/90486/1/CWTP004		**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
16/90486/1/CWTP004	**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001774		Acceptable				11-07-2024		
17/90486/1/CWTP004	**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001775		Acceptable				11-07-2024		
18/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCHG**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002034		Acceptable				02-08-2024		
19/90486/1/CWTP004	**0**	**27-07-2024**	**57**	**FCHG**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001972		Acceptable				29-07-2024		
20/90486/1/CWTP004	**0**	**27-07-2024**	**57**	**FCHG**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001973		Acceptable				29-07-2024		
21/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCBI**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002035		Acceptable				02-08-2024		
22/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCBI**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002036		Acceptable				02-08-2024		
23/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCBI**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002037		Acceptable				02-08-2024		
24/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCBI**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002038		Acceptable				02-08-2024		
25/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCHG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,257 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002039		Acceptable				02-08-2024		
26/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCHG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002040		Acceptable				02-08-2024		
27/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCHG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
27/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCHG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002041		Acceptable				02-08-2024		
28/90486/1/CWTP004	**0**	**30-07-2024**	**61**	**FCHG**			**PL**	**714,40 mm**	**20,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	002042		Acceptable				02-08-2024		
29/90486/1/CWTP004	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001948		Acceptable				24-07-2024		
30/90486/1/CWTP004	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001949		Acceptable				24-07-2024		
31/90486/1/CWTP004	**0**	**27-07-2024**	**57**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001974		Acceptable				29-07-2024		
32/90486/1/CWTP004	**0**	**27-07-2024**	**57**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001975		Acceptable				29-07-2024		
33/90486/1/CWTP004	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001919		Acceptable				24-07-2024		
34/90486/1/CWTP004	**0**	**22-07-2024**	**50**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**1,266 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001920		Acceptable				24-07-2024		
35/90486/1/CWTP004	**0**	**26-07-2024**	**59**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001980		Acceptable				29-07-2024		
36/90486/1/CWTP004	**0**	**27-07-2024**	**57**	**FCHG**			**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001976		Acceptable				29-07-2024		
68/90486/1/CWTP004	**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001776		Acceptable				11-07-2024		
69/90486/1/CWTP004	**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
69/90486/1/CWTP004		**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**1,061 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001777		Acceptable				11-07-2024			
70/90486/1/CWTP004		**0**	**27-07-2024**	**57**	**FCPS**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,137 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001977		Acceptable				29-07-2024			
71/90486/1/CWTP004		**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001778		Acceptable				11-07-2024			
72/90486/1/CWTP004		**0**	**07-06-2024**	**15**	**FCPS**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,070 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001779		Acceptable				11-07-2024			
73/90486/1/CWTP004		**0**	**29-07-2024**	**60**	**FCHG**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**1,218 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001934		Acceptable				31-07-2024			
74/90486/1/CWTP004		**0**	**26-07-2024**	**59**	**FCHG**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,216 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001981		Acceptable				29-07-2024			
75/90486/1/CWTP004		**0**	**26-07-2024**	**59**	**FCHG**			**PL**	**1.294,00 mm**	**20,00 mm**	**1/2V**	**0,234 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001986		Acceptable				29-07-2024			
82/90486/1/CWTP004		**0**	**26-07-2024**	**59**	**FCHG**			**PL**	**1.200,00 mm**	**20,00 mm**	**1/2V**	**0,165 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**29-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001988		Acceptable				29-07-2024			
83/90486/1/CWTP004		**0**	**21-05-2024**	**3**	**SID_E**			**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**0,950 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**06-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	001814		Acceptable				28-05-2024			
84/90486/1/CWTP004		**0**	**21-05-2024**	**3**	**SID_CW**			**PIPE**	**800,00 mm**	**40,00 mm**	**X**	**1,260 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**11-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	001815		Acceptable				28-05-2024			

Totals per DWG	**90486**			
		Prefabrication	**36,09 m**	**42 Nr. Welds**
		Erection	**2,51 m**	**1 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**38,60 m**	**43 Nr. Welds**
		Accepted	**38,60 m**	**43 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn.	Accept. Date
3/90487/1/CWTP004		**0**	**03-06-2024**	**8**	**FCBI**			**PL**	**1.265,10 mm**	**65,00 mm**	**K**	**1,200 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002076		Acceptable				15-06-2024			
4/90487/1/CWTP004		**0**	**03-06-2024**	**8**	**FCMA**			**PL**	**805,00 mm**	**65,00 mm**	**K**	**1,265 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002077		Acceptable				15-06-2024			
5/90487/1/CWTP004		**0**	**16-07-2024**	**41**	**FCBC FCHG**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,210 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002078		Acceptable				22-07-2024			
6/90487/1/CWTP004		**0**	**25-07-2024**	**58**	**FCBC FCHG**			**PL**	**1.799,00 mm**	**75,00 mm**	**1/2V**	**1,800 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**27-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BRM	100 %	002079		Acceptable				27-07-2024			
37/90487/1/CWTP004		**0**	**04-07-2024**	**33**	**FCBC FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,765 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001901		Acceptable				09-07-2024			
38/90487/1/CWTP004		**0**	**04-07-2024**	**33**	**FCBC FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,059 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001902		Acceptable				09-07-2024			
39/90487/1/CWTP004		**0**	**04-07-2024**	**33**	**FCBC FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,617 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001903		Acceptable				09-07-2024			
40/90487/1/CWTP004		**0**	**11-07-2024**	**44-55**	**FCBD FCBC FCHG**	**Repair done**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**26-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001807		Repair			0,010 m	22-07-2024			
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0223 02	BRM	100 %	001958		Acceptable				26-07-2024			
41/90487/1/CWTP004		**0**	**11-07-2024**	**44**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001921		Acceptable				22-07-2024			
42/90487/1/CWTP004		**0**	**11-07-2024**	**44**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**22-07-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
42/90487/1/CWTP004		**0**	**11-07-2024**	**44**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001922		Acceptable					22-07-2024		
43/90487/1/CWTP004		**0**	**16-07-2024**	**41**	**FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001940		Acceptable					19-07-2024		
44/90487/1/CWTP004		**0**	**05-07-2024**	**34**	**FCBC FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,765 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001904		Acceptable					09-07-2024		
45/90487/1/CWTP004		**0**	**05-07-2024**	**34**	**FCBC FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**4,059 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001905		Acceptable					09-07-2024		
46/90487/1/CWTP004		**0**	**05-07-2024**	**34**	**FCBC FCCG**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,617 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**09-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001906		Acceptable					09-07-2024		
47/90487/1/CWTP004		**0**	**15-07-2024**	**45**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,395 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001923		Acceptable					22-07-2024		
48/90487/1/CWTP004		**0**	**15-07-2024**	**45**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**0,817 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001924		Acceptable					22-07-2024		
49/90487/1/CWTP004		**0**	**15-07-2024**	**45**	**FCBD FCBC**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**6,541 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001925		Acceptable					22-07-2024		
50/90487/1/CWTP004		**0**	**28-06-2024**	**43**	**FCMA**			**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001941		Acceptable					22-07-2024		
51/90487/1/CWTP004		**0**	**21-06-2024**	**27**	**FCHG**			**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001897		Acceptable					04-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
51/90487/1/CWTP004		**0**	**21-06-2024**	**27**	**FCHG**		**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
52/90487/1/CWTP004		**0**	**21-06-2024**	**27**	**FCHG**		**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**1,260 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001898		Acceptable				04-07-2024		
53/90487/1/CWTP004		**0**	**21-06-2024**	**27**	**FCHG**		**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001899		Acceptable				04-07-2024		
54/90487/1/CWTP004		**0**	**21-06-2024**	**27**	**FCHG**		**PL**	**744,00 mm**	**25,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001900		Acceptable				04-07-2024		
67/90487/1/CWTP004		**0**	**17-06-2024**	**23**	**FCBD**		**PL**	**750,00 mm**	**20,00 mm**	**1/2V**	**0,750 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001823		Acceptable				19-06-2024		

Totals per DWG	**90487**	**Prefabrication**	**41,19 m**	**23 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**41,19 m**	**23 Nr. Welds**
		Accepted	**41,19 m**	**23 Nr. Welds**
		Repaired	**0,01 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90488/1/CWTP005		**0**	**03-06-2024**	**2-14**	**FCCG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001526		Acceptable				15-06-2024			
2/90488/1/CWTP005		**0**	**03-06-2024**	**9**	**FCCG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001481		Acceptable				07-06-2024			
3/90488/1/CWTP005		**0**	**03-06-2024**	**9**	**FCCG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001482		Acceptable				07-06-2024			
4/90488/1/CWTP005		**0**	**03-06-2024**	**9**	**FCCG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001483		Acceptable				07-06-2024			

Totals per DWG	**90488**	**Prefabrication**	**47,20 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**47,20 m**	**4 Nr. Welds**
		Accepted	**47,20 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90489/1/CWTP008		**0**	**04-06-2024**	**11**	**FCHG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001484		Acceptable				07-06-2024			
2/90489/1/CWTP008		**0**	**04-06-2024**	**11**	**FCHG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001485		Acceptable				07-06-2024			
3/90489/1/CWTP008		**0**	**06-06-2024**	**10**	**FCHG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001486		Acceptable				07-06-2024			
4/90489/1/CWTP008		**0**	**06-06-2024**	**10**	**FCHG**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001487		Acceptable				07-06-2024			
9/90489/1/CWTP008		**0**	**10-06-2024**	**17**	**FCCG**		**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001554		Acceptable				15-06-2024			
10/90489/1/CWTP008		**0**	**10-06-2024**	**17**	**FCCG**		**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,950 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001555		Acceptable				15-06-2024			
11/90489/1/CWTP008		**0**	**10-06-2024**	**17**	**FCCG**		**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,950 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001556		Acceptable				15-06-2024			
12/90489/1/CWTP008		**0**	**10-06-2024**	**17**	**FCCG**		**PL**	**414,00 mm**	**20,00 mm**	**1/2V**	**0,420 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001557		Acceptable				15-06-2024			

Totals per DWG	**90489**	**Prefabrication**	**49,94 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**49,94 m**	**8 Nr. Welds**
		Accepted	**49,94 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90490/1/CWTP006		**0**	**04-06-2024**	**11**	**FCBI**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001579		Acceptable					18-06-2024		
2/90490/1/CWTP006		**0**	**04-06-2024**	**11**	**FCBI**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001580		Repair				1,100 m	18-06-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0223 02	BRM	100 %	001584		Acceptable					24-06-2024		
3/90490/1/CWTP006		**0**	**17-06-2024**	**23**	**FCBI**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001581		Acceptable					18-06-2024		
4/90490/1/CWTP006		**0**	**17-06-2024**	**23**	**FCBI**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BRM	100 %	001582		Repair				2,100 m	18-06-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0223 02	BRM	100 %	001585		Acceptable					24-06-2024		

Totals per DWG	**90490**	**Prefabrication**	**47,20 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**47,20 m**	**4 Nr. Welds**
		Accepted	**47,20 m**	**4 Nr. Welds**
		Repaired	**3,20 m**	**2 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90491/1/CWTP007		**0**	**12-06-2024**	**19-25**	**FCBD**	**Welding + Repair done**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001533		Repair				1,700 m	18-06-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0223 02	BRM	100 %	001558		Acceptable					21-06-2024		
2/90491/1/CWTP007		**0**	**04-06-2024**	**12-25**	**FCBD**	**Welding + Repair done**		**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-06-2024**
	I	UT	FIN	Weld Completion				100 %			Acceptable							
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0223 02	BRM	100 %	001534		Acceptable					21-06-2024		
3/90491/1/CWTP007		**0**	**12-06-2024**	**19**	**FCBD**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001531		Acceptable					15-06-2024		
4/90491/1/CWTP007		**0**	**14-06-2024**	**20**	**FCBD**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**11,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BRM	100 %	001532		Acceptable					15-06-2024		

Totals per DWG	**90491**			
		Prefabrication	**47,20 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**47,20 m**	**4 Nr. Welds**
		Accepted	**47,20 m**	**4 Nr. Welds**
		Repaired	**1,70 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Examination phase	Prod. Date	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90494/1/CWLG019		**0**		**14-06-2024**	**39-45**	**DM18** **DM07** **DM22**	**Repair done**		**PIPE**		**700,00 mm**	**30,00 mm**	**V**	**2,198 m**	**P**	**C.S.**	**1C**	**FCAW+SAW**	**BW**	**25-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03		RS		100 %	001518		Acceptable					20-06-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 03		BLU		100 %	001583		Acceptable					25-06-2024		
2/90494/1/CWLG019		**0**		**28-05-2024**	**8**	**SID_CW**			**PIPE**		**700,00 mm**	**30,00 mm**	**X**	**3,000 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**06-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03		RID		100 %	001476		Acceptable					05-06-2024		
3/90494/1/CWLG019		**0**		**28-05-2024**	**8**	**SID_CW**			**PIPE**		**700,00 mm**	**30,00 mm**	**X**	**3,000 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**06-06-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03		RID		100 %	001477		Acceptable					05-06-2024		

Totals per DWG	**90494**	**Prefabrication**	**8,20 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,20 m**	**3 Nr. Welds**
		Accepted	**8,20 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90495/1/CWTP009		**0**	**06-11-2024**	**25-42**	**OM601**			**PIPE**	**700,00 mm**	**65,00 mm**	**K**	**21,956 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-01-2025**
					OM602													
					OM315													
					OM61	**Welding + Repair done**												
					OM15	**Welding + Repair done**												
					OM617													
					OM607													
					OM57	**Welding + Repair done**												
					OM615													
					OM609													
					OM115	**Welding + Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002458		Repair				8,566 m	25-11-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0224 03	ROM	100 %	002583		Acceptable					24-01-2025		
2/90495/1/CWTP009		**0**	**12-09-2024**	**3**	**OM317**			**PL**	**3.853,70 mm**	**65,00 mm**	**X**	**1,095 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-09-2024**
					OM316													
					OM312													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002348		Acceptable					17-09-2024		
3/90495/1/CWTP009		**0**	**12-09-2024**	**3**	**OM317**			**PL**	**3.853,70 mm**	**65,00 mm**	**X**	**1,095 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-09-2024**
					OM316													
					OM312													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002349		Acceptable					16-09-2024		
4/90495/1/CWTP009		**0**	**12-09-2024**	**3**	**OM317**			**PL**	**3.853,70 mm**	**65,00 mm**	**X**	**1,095 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-09-2024**
					OM316													
					OM312													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002350		Acceptable					16-09-2024		
5/90495/1/CWTP009		**0**	**12-09-2024**	**3**	**OM317**			**PL**	**3.853,70 mm**	**65,00 mm**	**X**	**1,095 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-09-2024**
					OM316													
					OM312													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002351		Acceptable					16-09-2024		
6/90495/1/CWTP009		**0**	**07-02-2025**	**45**	**OM61**			**PL**	**4.148,30 mm**	**30,00 mm**	**X**	**4,860 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-02-2025**
					OM15													
					OM57													
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002653		Acceptable					18-02-2025		
7/90495/1/CWTP009		**0**	**07-02-2025**	**45**	**OM61**			**PL**	**4.148,30 mm**	**30,00 mm**	**K**	**7,633 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-02-2025**
					OM15													
					OM57													

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
7/90495/1/CWTP009		**0**	**07-02-2025**	**45**	**OM61**		**PL**	**4.148,30 mm**	**30,00 mm**	**K**	**7,633 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-02-2025**
					OM15												
					OM57												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002654		Acceptable					18-02-2025		
26/90495/1/CWTP009		**0**	**09-09-2024**	**5-32**	**OM601**		**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**21,934 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-11-2024**
					OM310												
					OM602												
					OM313												
					OM170												
					OM317												
					OM318												
					OM71A **Welding + Repair done**												
					OM316												
					OM311												
					OM61 **Repair done**												
					OM617 **Repair done**												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	MM	100 %	002347		Repair				2,280 m	16-09-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0216 04	ROM	100 %	002486		Acceptable					25-11-2024		
30/90495/1/CWTP009		**0**	**27-07-2024**	**1-7-33**	**OM170**		**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**21,810 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**23-11-2024**
					OM317												
					OM314												
					OM316												
					OM61 **Welding + Repair done**												
					OM71A **Repair done**												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	RS	100 %	002021		Repair				4,560 m	02-08-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0216 04	MM	100 %	002354		Repair				0,070 m	20-09-2024		
		UT	R 2 DRI	After Repair	IDL-QCI-UT 0216 04	ROM	100 %	002482		Acceptable					23-11-2024		
31/90495/1/CWTP009		**0**	**14-09-2024**	**8**	**OM313**		**PL**	**4.148,30 mm**	**30,00 mm**	**K**	**7,633 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-09-2024**
					OM318												
					OM316												
					OM311												
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	002352		Acceptable					19-09-2024		

Totals per DWG	**90495**			
		Prefabrication	**90,22 m**	**10 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**90,22 m**	**10 Nr. Welds**
		Accepted	**90,22 m**	**10 Nr. Welds**
		Repaired	**15,48 m**	**4 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
8/90496/1/CWTP009		**0**	**09-09-2024**	**2**	**OM601** **OM317** **OM316**			**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**2,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002332		Acceptable					12-09-2024		
9/90496/1/CWTP009		**0**	**09-09-2024**	**2**	**OM313** **OM170** **OM318** **OM311**			**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**2,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002333		Acceptable					12-09-2024		
10/90496/1/CWTP009		**0**	**10-09-2024**	**6**	**OM310** **OM71A**			**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**2,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**13-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002336		Acceptable					13-09-2024		
12/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM15** **OM317** **OM318** **OM115**			**PL**	**2.073,10 mm**	**50,00 mm**	**X**	**1,508 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	100 %	002432		Acceptable					05-11-2024		
13/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM603** **OM57** **OM316** **OM311**			**PL**	**2.073,10 mm**	**50,00 mm**	**X**	**1,508 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002427		Acceptable					04-11-2024		
14/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM313** **OM61** **OM318** **OM115** **OM316**			**PL**	**2.073,10 mm**	**50,00 mm**	**X**	**1,508 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	100 %	002426		Acceptable					04-11-2024		
15/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM313** **OM15** **OM57** **OM317**			**PL**	**2.073,10 mm**	**50,00 mm**	**X**	**1,508 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	100 %	002438		Acceptable					05-11-2024		
16/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM61**			**PIPE**	**3.850,00 mm**	**50,00 mm**	**X**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-11-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
16/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM61** **OM603** **OM318** **OM311**			**PIPE**	**3.850,00 mm**	**50,00 mm**	**X**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	100 %	002433		Acceptable					06-11-2024		
17/90496/1/CWTP009		**0**	**16-10-2024**	**11-36**	**OM61** **OM115** **OM316** **OM311**	**Welding + Repair done**		**PIPE**	**3.850,00 mm**	**50,00 mm**	**X**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**27-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	100 %	002425		Repair				0,100 m	07-11-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0216 04	ROM	100 %	002497		Acceptable					27-11-2024		
18/90496/1/CWTP009		**0**	**16-10-2024**	**11-37**	**OM57** **OM317** **OM318** **OM316** **OM311** **OM61**	**Repair done**		**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**3,020 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002428		Repair				0,120 m	05-11-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0224 03	ROM	100 %	002543		Acceptable					16-01-2025		
19/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM313** **OM61** **OM317** **OM318**			**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**3,020 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002441		Acceptable					07-11-2024		
20/90496/1/CWTP009		**0**	**16-10-2024**	**11-38**	**OM313** **OM15** **OM603** **OM57**	**Welding + Repair done**		**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**3,020 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002429		Repair				0,285 m	05-11-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0224 03	ROM	100 %	002544		Acceptable					16-01-2025		
21/90496/1/CWTP009		**0**	**16-10-2024**	**11-38**	**OM313** **OM61** **OM15** **OM603** **OM57**	**Repair done**		**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**3,020 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002430		Repair				0,460 m	06-11-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0224 03	ROM	100 %	002545		Acceptable					16-01-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
21/90496/1/CWTP009		**0**	**16-10-2024**	**11-38**	**OM313** **OM61** **OM15** **OM603** **OM57**	**Repair done**		**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**3,020 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-01-2025**
22/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM61** **OM115**			**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**5,392 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002437		Acceptable					05-11-2024		
23/90496/1/CWTP009		**0**	**16-10-2024**	**11-40**	**OM313** **OM317** **OM316** **OM311** **OM57**	**Repair done**		**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**5,392 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002442		Repair				1,150 m	07-11-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0224 03	ROM	100 %	002584		Acceptable					24-01-2025		
24/90496/1/CWTP009		**0**	**16-10-2024**	**11-39**	**OM61** **OM15** **OM603** **OM57**	**Repair done**		**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**5,392 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002431		Repair				1,125 m	05-11-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0224 03	ROM	100 %	002585		Acceptable					24-01-2025		
25/90496/1/CWTP009		**0**	**16-10-2024**	**11**	**OM313** **OM61** **OM15** **OM603**			**PL**	**2.073,10 mm**	**50,00 mm**	**K**	**5,392 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ROM	100 %	002439		Acceptable					06-11-2024		
31/90496/1/CWTP009		**0**	**16-10-2024**	**12**	**OM616**			**PL**	**1.940,00 mm**	**30,00 mm**	**X**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	100 %	002404		Acceptable					24-10-2024		
32/90496/1/CWTP009		**0**	**16-10-2024**	**12**	**OM616**			**PL**	**1.940,00 mm**	**30,00 mm**	**X**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	100 %	002405		Acceptable					24-10-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
32/90496/1/CWTP009	**0**	**16-10-2024**	**12**	**OM616**		**PL**	**1.940,00 mm**	**30,00 mm**	**X**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-10-2024**

Totals per DWG	**90496**	**Prefabrication**	**49,52 m**	**19 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**49,52 m**	**19 Nr. Welds**
		Accepted	**49,52 m**	**19 Nr. Welds**
		Repaired	**3,24 m**	**6 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
27/90497/1/CWTP009		**0**	**09-09-2024**	**2**	**OM601** **OM317** **OM316**			**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**1,540 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**16-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002345		Acceptable					16-09-2024		
28/90497/1/CWTP009		**0**	**09-09-2024**	**2**	**OM313** **OM170** **OM318** **OM311**			**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**1,540 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002334		Acceptable					12-09-2024		
29/90497/1/CWTP009		**0**	**09-09-2024**	**2**	**OM310** **OM602** **OM71A**			**PIPE**	**700,00 mm**	**65,00 mm**	**X**	**1,540 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**16-09-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	100 %	002346		Acceptable					16-09-2024		

Totals per DWG	**90497**	**Prefabrication**	**4,62 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,62 m**	**3 Nr. Welds**
		Accepted	**4,62 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90505/1/CWTP002		**0**						**PIPE**		**800,00 mm**	**40,00 mm**	**1/2V**	**2,506 m**	**O**	**C.S.**			**BW**	
	I	UT	FIN	Weld Completion					100 %										
1/90505/1/CWTP004		**0**						**PIPE**		**800,00 mm**	**40,00 mm**	**1/2V**	**2,506 m**	**O**	**C.S.**			**BW**	
	I	UT	FIN	Weld Completion					100 %										
1/90505/1/CWTP006		**0**	**08-01-2025**	**13**	**OM607 OM71A**			**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002539		Acceptable					16-01-2025		
2/90505/1/CWTP006		**0**	**08-01-2025**	**13**	**OM607 OM71A**			**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002540		Acceptable					16-01-2025		
3/90505/1/CWTP006		**0**	**08-01-2025**	**13**	**OM607 OM71A**			**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002541		Acceptable					16-01-2025		
4/90505/1/CWTP006		**0**	**08-01-2025**	**13**	**OM607 OM71A**			**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002542		Acceptable					16-01-2025		
5/90505/1/CWTP006		**0**	**20-01-2025**	**18**	**OM61**			**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**22-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002562		Acceptable					21-01-2025		
6/90505/1/CWTP006		**0**	**20-01-2025**	**18**	**OM61**			**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**22-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002563		Acceptable					21-01-2025		
7/90505/1/CWTP006		**0**	**20-01-2025**	**18**	**OM61**			**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**22-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002564		Acceptable					21-01-2025		
8/90505/1/CWTP006		**0**	**20-01-2025**	**18**	**OM61**			**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**22-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM		100 %	002565		Acceptable					21-01-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90505/1/CWTP007		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002546		Acceptable					17-01-2025		
2/90505/1/CWTP007		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002547		Acceptable					17-01-2025		
3/90505/1/CWTP007		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002548		Acceptable					17-01-2025		
4/90505/1/CWTP007		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002549		Acceptable					17-01-2025		
5/90505/1/CWTP007		**0**	**08-01-2025**	**12**	**OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002525		Acceptable					15-01-2025		
6/90505/1/CWTP007		**0**	**08-01-2025**	**12**	**OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002526		Acceptable					15-01-2025		
7/90505/1/CWTP007		**0**	**08-01-2025**	**12**	**OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002527		Acceptable					15-01-2025		
8/90505/1/CWTP007		**0**	**08-01-2025**	**12**	**OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002528		Acceptable					15-01-2025		

Totals per DWG	**90505**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**11,44 m**	**16 Nr. Welds**
		Offshore	**5,02 m**	**2 Nr. Welds**
		Performed	**11,44 m**	**16 Nr. Welds**
		Accepted	**11,44 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90506/1/CWTP001		**0**						**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,506 m**	**O**	**C.S.**			**BW**	
	I	UT	FIN	Weld Completion				100 %										
1/90506/1/CWTP003		**0**						**PIPE**	**800,00 mm**	**40,00 mm**	**1/2V**	**2,506 m**	**O**	**C.S.**			**BW**	
	I	UT	FIN	Weld Completion				100 %										
1/90506/1/CWTP005		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002550		Acceptable					17-01-2025		
2/90506/1/CWTP005		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002551		Acceptable					17-01-2025		
3/90506/1/CWTP005		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002552		Acceptable					17-01-2025		
4/90506/1/CWTP005		**0**	**13-01-2025**	**15**	**OM601 OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**17-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002553		Acceptable					17-01-2025		
5/90506/1/CWTP005		**0**	**08-01-2025**	**14**	**OM607 OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002535		Acceptable					16-01-2025		
6/90506/1/CWTP005		**0**	**08-01-2025**	**14**	**OM607 OM71A**			**PL**	**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002536		Acceptable					16-01-2025		
7/90506/1/CWTP005		**0**	**08-01-2025**	**14**	**OM607 OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002537		Acceptable					16-01-2025		
8/90506/1/CWTP005		**0**	**08-01-2025**	**14**	**OM607 OM71A**			**PL**	**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
8/90506/1/CWTP005		**0**	**08-01-2025**	**14**	**OM607 OM71A**		**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**16-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002538		Acceptable				16-01-2025		
1/90506/1/CWTP008		**0**	**08-01-2025**	**13**	**OM71A**		**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002529		Acceptable				15-01-2025		
2/90506/1/CWTP008		**0**	**08-01-2025**	**13**	**OM71A**		**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002530		Acceptable				15-01-2025		
3/90506/1/CWTP008		**0**	**08-01-2025**	**13**	**OM71A**		**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002531		Acceptable				15-01-2025		
4/90506/1/CWTP008		**0**	**08-01-2025**	**13**	**OM71A**		**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002532		Acceptable				15-01-2025		
5/90506/1/CWTP008		**0**	**17-01-2025**	**17**	**OM601 OM71A**		**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002554		Acceptable				20-01-2025		
6/90506/1/CWTP008		**0**	**17-01-2025**	**17**	**OM601 OM71A**		**PL**		**944,00 mm**	**20,00 mm**	**1/2V**	**0,926 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002555		Acceptable				20-01-2025		
7/90506/1/CWTP008		**0**	**17-01-2025**	**17**	**OM601 OM71A**		**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002556		Acceptable				20-01-2025		
8/90506/1/CWTP008		**0**	**17-01-2025**	**17**	**OM601 OM71A**		**PL**		**500,00 mm**	**25,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**20-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002557		Acceptable				20-01-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
8/90506/1/CWTP008		0	17-01-2025	17	OM601		PL	500,00 mm	25,00 mm	1/2V	0,500 m	M	C.S.	2A	FCAW	BW	20-01-2025
					OM71A												

Totals per DWG	**90506**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**11,44 m**	**16 Nr. Welds**
		Offshore	**5,02 m**	**2 Nr. Welds**
		Performed	**11,44 m**	**16 Nr. Welds**
		Accepted	**11,44 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
4/90507/1/CWTP002		**0**	**14-01-2025**	**16**	**OM617** **OM71A** **OM115**		**PL**	**600,00 mm**	**75,00 mm**	**1/2V**	**2,343 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	002602		Acceptable					03-02-2025		
5/90507/1/CWTP002		**0**	**27-01-2025**	**24**	**OM601** **OM71A**		**PL**	**805,10 mm**	**65,00 mm**	**1/2V**	**1,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**03-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	ROM	100 %	002598		Acceptable					03-02-2025		
6/90507/1/CWTP002		**0**	**26-01-2025**	**22**	**OM57** **OM71A**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002599		Acceptable					03-02-2025		
7/90507/1/CWTP002		**0**	**14-01-2025**	**16**	**OM617** **OM607** **OM71A** **OM115**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002600		Acceptable					03-02-2025		
8/90507/1/CWTP002		**0**	**14-01-2025**	**16**	**OM617** **OM607** **OM71A** **OM115**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002601		Acceptable					03-02-2025		
9/90507/1/CWTP002		**0**	**24-01-2025**	**19**	**OM601** **OM71A**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002617		Acceptable					06-02-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
4/90507/1/CWTP003		**0**	**24-01-2025**	**21**	**OM315 OM607 OM615**		**PL**	**600,00 mm**	**75,00 mm**	**1/2V**	**2,343 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002610		Acceptable				04-02-2025			
5/90507/1/CWTP003		**0**	**31-01-2025**	**31**	**OM61**		**PL**	**805,00 mm**	**65,00 mm**	**1/2V**	**1,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**21-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	ROM	100 %	002707		Acceptable				21-02-2025			
6/90507/1/CWTP003		**0**	**24-01-2025**	**19**	**OM61**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002607		Acceptable				04-02-2025			
7/90507/1/CWTP003		**0**	**24-01-2025**	**20**	**OM601 OM602 OM617**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002609		Acceptable				04-02-2025			
8/90507/1/CWTP003		**0**	**24-01-2025**	**19**	**OM601 OM315 OM607**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002608		Acceptable				04-02-2025			
9/90507/1/CWTP003		**0**	**29-01-2025**	**27**	**OM61**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002611		Acceptable				04-02-2025			

Totals per DWG	**90507**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**22,00 m**	**12 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**22,00 m**	**12 Nr. Welds**
		Accepted	**22,00 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
4/90508/1/CWTP001		**0**	**27-01-2025**	**23**	**OM607** **OM615** **OM115**		**PL**		**600,00 mm**	**75,00 mm**	**1/2V**	**2,343 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	ROM	100 %	002616		Acceptable				06-02-2025		
5/90508/1/CWTP001		**0**	**04-02-2025**	**48**	**OM57** **OM71A**		**PL**		**805,00 mm**	**65,00 mm**	**1/2V**	**1,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	ROM	100 %	002620		Acceptable				10-02-2025		
6/90508/1/CWTP001		**0**	**04-02-2025**	**48**	**OM57** **OM71A**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002618		Acceptable				10-02-2025		
7/90508/1/CWTP001		**0**	**27-01-2025**	**23**	**OM601** **OM602** **OM617**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002614		Acceptable				06-02-2025		
8/90508/1/CWTP001		**0**	**27-01-2025**	**23**	**OM601** **OM602** **OM617**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002615		Acceptable				06-02-2025		
9/90508/1/CWTP001		**0**	**04-02-2025**	**48**	**OM57** **OM71A**		**PL**		**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002619		Acceptable				10-02-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
4/90508/1/CWTP004		**0**	**30-01-2025**	**30**	**OM602 OM615**		**PL**	**600,00 mm**	**75,00 mm**	**1/2V**	**2,343 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	ROM	100 %	002648		Acceptable					14-02-2025		
5/90508/1/CWTP004		**0**	**28-01-2025**	**25**	**OM71A**		**PL**	**805,00 mm**	**65,00 mm**	**1/2V**	**1,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	ROM	100 %	002593		Acceptable					31-01-2025		
6/90508/1/CWTP004		**0**	**29-01-2025**	**27**	**OM71A**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002594		Acceptable					31-01-2025		
7/90508/1/CWTP004		**0**	**30-01-2025**	**29**	**OM601 OM607**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002596		Acceptable					31-01-2025		
8/90508/1/CWTP004		**0**	**29-01-2025**	**28**	**OM601 OM607 OM115**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**2,385 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002595		Acceptable					31-01-2025		
9/90508/1/CWTP004		**0**	**30-01-2025**	**29**	**OM71A**		**PL**	**2.379,00 mm**	**30,00 mm**	**1/2V**	**1,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-01-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002597		Acceptable					31-01-2025		

Totals per DWG	**90508**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**22,00 m**	**12 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**22,00 m**	**12 Nr. Welds**
		Accepted	**22,00 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90555/1/CWTPW034		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002003		Acceptable					02-08-2024		
2/90555/1/CWTPW034		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002004		Acceptable					02-08-2024		
3/90555/1/CWTPW034		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002005		Acceptable					02-08-2024		
4/90555/1/CWTPW034		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002006		Acceptable					02-08-2024		
8/90555/1/CWTPW034		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	50 %	002010		Acceptable					02-08-2024		
10/90555/1/CWTPW034		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	50 %	002011		Acceptable					02-08-2024		

Totals per DWG	**90555**			
		Prefabrication	**1,80 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,80 m**	**6 Nr. Welds**
		Accepted	**1,80 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90556/1/CWTPW037		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001978		Acceptable				02-08-2024			
2/90556/1/CWTPW037		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001979		Acceptable				02-08-2024			
3/90556/1/CWTPW037		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001982		Acceptable				02-08-2024			
4/90556/1/CWTPW037		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90556/1/CWTPW037		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90556/1/CWTPW037		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90556**	**Prefabrication**	**1,80 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,80 m**	**6 Nr. Welds**
		Accepted	**1,80 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn / Accept. Date
1/90557/1/CWTPW038		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001983		Acceptable				02-08-2024		
2/90557/1/CWTPW038		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001984		Acceptable				02-08-2024		
3/90557/1/CWTPW038		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001985		Acceptable				02-08-2024		
4/90557/1/CWTPW038		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW** **02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001987		Acceptable				02-08-2024		
8/90557/1/CWTPW038		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	50 %	001989		Acceptable				02-08-2024		
10/90557/1/CWTPW038		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	50 %	001990		Acceptable				02-08-2024		

Totals per DWG	**90557**			
		Prefabrication	**1,80 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,80 m**	**6 Nr. Welds**
		Accepted	**1,80 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90558/1/CWTPW003		**0**	**31-07-2024**	**37**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90558/1/CWTPW003		**0**	**31-07-2024**	**37**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90558/1/CWTPW003		**0**	**31-07-2024**	**37**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90558/1/CWTPW003		**0**	**31-07-2024**	**37**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90558/1/CWTPW003		**0**	**31-07-2024**	**37**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90558/1/CWTPW003		**0**	**31-07-2024**	**37**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90558**	**Prefabrication**	**1,80 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,80 m**	**6 Nr. Welds**
		Accepted	**1,80 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90560/1/CWTPW070		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90560/1/CWTPW070		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90560/1/CWTPW070		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90560/1/CWTPW070		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90560/1/CWTPW071		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002001		Acceptable					02-08-2024		
2/90560/1/CWTPW071		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002002		Acceptable					02-08-2024		
5/90560/1/CWTPW071		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90560/1/CWTPW071		**0**	**31-07-2024**	**37**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,304 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90560**	**Prefabrication**	**2,40 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,40 m**	**8 Nr. Welds**
		Accepted	**2,40 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90561/1/CWTPW072		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90561/1/CWTPW072		**0**	**31-07-2024**	**37**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002009		Acceptable					02-08-2024		
1/90561/1/CWTPW075		**0**	**31-07-2024**	**37**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002007		Acceptable					02-08-2024		
2/90561/1/CWTPW075		**0**	**31-07-2024**	**37**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002008		Acceptable					02-08-2024		

Totals per DWG	**90561**	**Prefabrication**	**0,92 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,92 m**	**4 Nr. Welds**
		Accepted	**0,92 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
2/90565/1/CWTPW059	**0**	**27-05-2024**	**34**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90565/1/CWTPW060	**0**	**27-05-2024**	**34**	**DM22**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	001456		Acceptable				04-06-2024			

Totals per DWG	**90565**	**Prefabrication**	**1,38 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,38 m**	**2 Nr. Welds**
		Accepted	**1,38 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
2/90566/1/CWTPW078	**0**	**27-05-2024**	**34**	**DM09**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90566/1/CWTPW079	**0**	**27-05-2024**	**34**	**DM09**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2024**
III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	001475		Acceptable					04-06-2024		

Totals per DWG	**90566**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,72 m**	**2 Nr. Welds**
		Accepted	**1,72 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90567/1/CWTPW067		**0**	**08-06-2024**	**38**	**DM07**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90567/1/CWTPW067		**0**	**27-05-2024**	**34**	**DM07**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001457		Acceptable				04-06-2024			
1/90567/1/CWTPW080		**0**	**08-06-2024**	**38**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001496		Acceptable				17-06-2024			
2/90567/1/CWTPW080		**0**	**27-05-2024**	**34**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001497		Acceptable				17-06-2024			

Totals per DWG	**90567**			
		Prefabrication	**3,10 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,10 m**	**4 Nr. Welds**
		Accepted	**3,10 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90568/1/CWTPW062	**0**	**28-05-2024**	**33**	**DM22**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90568/1/CWTPW063	**0**	**28-05-2024**	**33**	**DM22**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90568**	**Prefabrication**	**1,38 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,38 m**	**2 Nr. Welds**
		Accepted	**1,38 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90569/1/CWTPW065	**0**	**28-05-2024**	**33**	**DM07**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	GMA	50 %	001458		Acceptable				04-06-2024		
2/90569/1/CWTPW065	**0**	**08-06-2024**	**38**	**DM07**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	GMA	50 %	001498		Acceptable				17-06-2024		
1/90569/1/CWTPW066	**0**	**28-05-2024**	**33**	**DM07**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	GMA	50 %	001459		Acceptable				04-06-2024		
2/90569/1/CWTPW066	**0**	**08-06-2024**	**38**	**DM07**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	GMA	50 %	001499		Acceptable				17-06-2024		

Totals per DWG	**90569**			
		Prefabrication	**2,76 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,76 m**	**4 Nr. Welds**
		Accepted	**2,76 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90570/1/CWTPW068		**0**	**28-05-2024**	**33**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001460		Acceptable				04-06-2024			
2/90570/1/CWTPW068		**0**	**08-06-2024**	**38**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001500		Acceptable				17-06-2024			
1/90570/1/CWTPW069		**0**	**28-05-2024**	**33**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001461		Acceptable				04-06-2024			
2/90570/1/CWTPW069		**0**	**08-06-2024**	**38**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90570**			
		Prefabrication	**2,76 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,76 m**	**4 Nr. Welds**
		Accepted	**2,76 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90571/1/CWTPW076		**0**	**03-06-2024**	**31**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001501		Acceptable				17-06-2024		
2/90571/1/CWTPW076		**0**	**10-06-2024**	**37**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-06-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	GMA	50 %	001495		Acceptable				17-06-2024		
1/90571/1/CWTPW077		**0**	**03-06-2024**	**31**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90571**			
		Prefabrication	**2,58 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,58 m**	**3 Nr. Welds**
		Accepted	**2,58 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90572/1/CWTPW055		**0**	**29-05-2024**	**32**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	001449		Acceptable					04-06-2024		
1/90572/1/CWTPW056		**0**	**29-05-2024**	**32**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	001450		Acceptable					04-06-2024		

Totals per DWG	**90572**	**Prefabrication**	**1,38 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,38 m**	**2 Nr. Welds**
		Accepted	**1,38 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90573/1/CWTPW057	**0**	**29-05-2024**	**32**	**DM22**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90573/1/CWTPW058	**0**	**29-05-2024**	**32**	**DM22**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90573**	**Prefabrication**	**1,38 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,38 m**	**2 Nr. Welds**
		Accepted	**1,38 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90574/1/CWTPW061		**0**	**03-06-2024**	**31**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	001451		Acceptable				04-06-2024		
1/90574/1/CWTPW064		**0**	**03-06-2024**	**31**	**DM09**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90574**	**Prefabrication**	**1,38 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,38 m**	**2 Nr. Welds**
		Accepted	**1,38 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90575/1/CWTPW019		**0**	**03-06-2024**	**1**	**AX416**		**PIPE**	**219,10 mm**	**10,31 mm**	**V**	**0,688 m**	**M**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**11-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	BLU	100 %	001480		Acceptable				11-06-2024			
1/90575/1/CWTPW023		**0**	**01-08-2024**	**38**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,619 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90575/1/CWTPW023		**0**	**01-08-2024**	**38**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,619 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90575/1/CWTPW024		**0**	**01-08-2024**	**38**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,619 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90575/1/CWTPW024		**0**	**01-08-2024**	**38**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,619 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90575**	**Prefabrication**	**2,48 m**	**4 Nr. Welds**
		Erection	**0,69 m**	**1 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,17 m**	**5 Nr. Welds**
		Accepted	**3,17 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90587/1/CWTPW001	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90587/1/CWTPW001	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90587/1/CWTPW001	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90587/1/CWTPW001	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90587/1/CWTPW002	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90587/1/CWTPW002	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90587/1/CWTPW002	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90587/1/CWTPW002	**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90587/1/CWTPW007		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90587/1/CWTPW007		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90587/1/CWTPW007		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90587/1/CWTPW007		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90587/1/CWTPW012		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90587/1/CWTPW012		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90587/1/CWTPW012		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90587/1/CWTPW012		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001888		Acceptable					30-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90587/1/CWTPW049	**0**	**03-02-2025**	**32**	**OM115**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90587/1/CWTPW049	**0**	**03-02-2025**	**32**	**OM115**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90587/1/CWTPW049	**0**	**03-02-2025**	**32**	**OM115**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90587/1/CWTPW049	**0**	**03-02-2025**	**32**	**OM115**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90587/1/CWTPW051	**0**	**25-07-2024**	**9**	**GX14**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001889		Acceptable				30-07-2024		
5/90587/1/CWTPW051	**0**	**25-07-2024**	**9**	**GX14**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001890		Acceptable				30-07-2024		
1/90587/1/CWTPW052	**0**	**25-07-2024**	**9**	**GX14**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001891		Acceptable				30-07-2024		
5/90587/1/CWTPW052	**0**	**25-07-2024**	**9**	**GX14**			**C**		**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001892		Acceptable				30-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90587/1/CWTPW053	**0**	**25-07-2024**	**9**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90587/1/CWTPW053	**0**	**25-07-2024**	**9**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90587/1/CWTPW054	**0**	**25-07-2024**	**9**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90587/1/CWTPW054	**0**	**25-07-2024**	**9**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90587**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,52 m**	**28 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,52 m**	**28 Nr. Welds**
		Accepted	**3,52 m**	**28 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90588/1/CWTPW034		**0**	**03-02-2025**	**33**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002621		Acceptable				12-02-2025		
3/90588/1/CWTPW034		**0**	**03-02-2025**	**33**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002623		Acceptable				12-02-2025		
4/90588/1/CWTPW034		**0**	**03-02-2025**	**33**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,207 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002622		Acceptable				12-02-2025		
8/90588/1/CWTPW034		**0**	**03-02-2025**	**33**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,090 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002644		Acceptable				14-02-2025		
1/90588/1/CWTPW037		**0**	**03-02-2025**	**34**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,424 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002634		Acceptable				12-02-2025		
5/90588/1/CWTPW037		**0**	**03-02-2025**	**34**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,090 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002635		Acceptable				12-02-2025		
6/90588/1/CWTPW037		**0**	**03-02-2025**	**34**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002636		Acceptable				12-02-2025		
8/90588/1/CWTPW037		**0**	**03-02-2025**	**34**	**OM115**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	100 %	002637		Acceptable				12-02-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90588/1/CWTPW038		**0**	**28-01-2025**	**26**	**OM57**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,301 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002612		Acceptable					04-02-2025		
3/90588/1/CWTPW038		**0**	**28-01-2025**	**26**	**OM57**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,301 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002613		Acceptable					04-02-2025		
4/90588/1/CWTPW038		**0**	**03-02-2025**	**35**	**OM57**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002632		Acceptable					12-02-2025		
6/90588/1/CWTPW038		**0**	**03-02-2025**	**35**	**OM57**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002633		Acceptable					12-02-2025		
1/90588/1/CWTPW085		**0**	**03-02-2025**	**36**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002630		Acceptable					12-02-2025		
3/90588/1/CWTPW085		**0**	**03-02-2025**	**36**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	100 %	002631		Acceptable					12-02-2025		
4/90588/1/CWTPW085		**0**	**26-07-2024**	**10-12**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
					GX37	**Repair done**												
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001871		Acceptable					30-07-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0215 04	ROM	50 %	002708		Acceptable					05-08-2024		
8/90588/1/CWTPW085		**0**	**26-07-2024**	**10-12-1**	**GX14**	**Welding + Repair done**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-11-2024**
					GX37	**Repair done**												
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001872		Acceptable					30-07-2024		
		UT	R 1 DRI	After Repair				50 %			Acceptable							
		UT	R 2 DRI	After Repair		IDL-QCI-UT 0215 04	ROM	50 %	002709		Acceptable					04-11-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90588/1/CWTPW086	**0**	**26-07-2024**	**10**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**31-07-2024**
III	UT		FIN Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001873		Acceptable				30-07-2024		
5/90588/1/CWTPW086	**0**	**26-07-2024**	**10-12**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
				GX37	**Repair done**											
III	UT		FIN Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001874		Acceptable				30-07-2024		
	UT	R 1	DRI After Repair		IDL-QCI-UT 0215 04	ROM	50 %	002710		Acceptable				05-08-2024		
6/90588/1/CWTPW086	**0**	**26-07-2024**	**10-12**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-08-2024**
				GX37	**Repair done**											
III	UT		FIN Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001875		Acceptable				30-07-2024		
	UT	R 1	DRI After Repair		IDL-QCI-UT 0215 04	ROM	50 %	002711		Acceptable				05-08-2024		
10/90588/1/CWTPW086	**0**	**26-07-2024**	**10**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT		FIN Weld Completion				50 %			Acceptable						

Totals per DWG	**90588**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**5,61 m**	**20 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,61 m**	**20 Nr. Welds**
		Accepted	**5,61 m**	**20 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90590/1/CWTPW003		**0**	**25-07-2024**	**9**	**GX08**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90590/1/CWTPW003		**0**	**25-07-2024**	**9**	**GX08**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001876		Acceptable					30-07-2024		
6/90590/1/CWTPW003		**0**	**25-07-2024**	**9**	**GX08**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001877		Acceptable					30-07-2024		
10/90590/1/CWTPW003		**0**	**25-07-2024**	**9**	**GX08**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001878		Acceptable					30-07-2024		
1/90590/1/CWTPW004		**0**	**25-07-2024**	**9**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001879		Acceptable					30-07-2024		
5/90590/1/CWTPW004		**0**	**25-07-2024**	**9**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90590/1/CWTPW048		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90590/1/CWTPW048		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90590/1/CWTPW048		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90590/1/CWTPW048		**0**	**25-07-2024**	**9**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90590/1/CWTPW048		**0**	**05-02-2025**	**51**	**OM115**			**PL**	**66,20 mm**	**8,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
14/90590/1/CWTPW048		**0**	**05-02-2025**	**51**	**OM115**			**PL**	**66,20 mm**	**8,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-02-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
14/90590/1/CWTPW048		**0**	**05-02-2025**	**51**	**OM115**			**PL**	**66,20 mm**	**8,00 mm**	**1/2V**	**0,051 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90590/1/CWTPW049		**0**	**03-02-2025**	**41**	**OM115**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
11/90590/1/CWTPW049		**0**	**03-02-2025**	**41**	**OM115**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90590/1/CWTPW050		**0**	**03-02-2025**	**40**	**OM115**			**C**	**260,00 mm**	**14,00 mm**	**1/2V**	**0,070 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90590/1/CWTPW050		**0**	**03-02-2025**	**40**	**OM115**			**C**	**260,00 mm**	**14,00 mm**	**1/2V**	**0,070 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90590/1/CWTPW070		**0**	**03-02-2025**	**38**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	50 %	002628		Acceptable					12-02-2025		
5/90590/1/CWTPW070		**0**	**03-02-2025**	**38**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	50 %	002629		Acceptable					12-02-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90590/1/CWTPW071		**0**	**03-02-2025**	**42**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	50 %	002626		Acceptable					12-02-2025		
5/90590/1/CWTPW071		**0**	**03-02-2025**	**42**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	ROM	50 %	002627		Acceptable					12-02-2025		
1/90590/1/CWTPW072		**0**	**01-07-2024**	**16**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90590/1/CWTPW072		**0**	**01-07-2024**	**16**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,301 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90590/1/CWTPW072		**0**	**10-02-2025**	**57**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90590/1/CWTPW072		**0**	**10-02-2025**	**57**	**OM115**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90590/1/CWTPW073		**0**	**25-07-2024**	**9**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001880		Acceptable					30-07-2024		
5/90590/1/CWTPW073		**0**	**25-07-2024**	**9**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001881		Acceptable					30-07-2024		
6/90590/1/CWTPW073		**0**	**25-07-2024**	**9**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,303 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90590/1/CWTPW073		**0**	**25-07-2024**	**9**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90590/1/CWTPW074	**0**	**25-07-2024**	**9**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90590/1/CWTPW074	**0**	**25-07-2024**	**9**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90590/1/CWTPW074	**0**	**25-07-2024**	**9**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90590/1/CWTPW074	**0**	**25-07-2024**	**9**	**GX14**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90590**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**7,64 m**	**32 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**7,64 m**	**32 Nr. Welds**
		Accepted	**7,64 m**	**32 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90591/1/CWTPW008	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90591/1/CWTPW008	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90591/1/CWTPW008	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90591/1/CWTPW008	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90591/1/CWTPW009	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90591/1/CWTPW009	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90591/1/CWTPW009	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90591/1/CWTPW009	**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90591/1/CWTPW013		**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90591/1/CWTPW013		**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001882		Acceptable					30-07-2024		
6/90591/1/CWTPW013		**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001883		Acceptable					30-07-2024		
10/90591/1/CWTPW013		**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001884		Acceptable					30-07-2024		
1/90591/1/CWTPW039		**0**	**12-07-2024**	**8**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001705		Acceptable					15-07-2024		
5/90591/1/CWTPW039		**0**	**12-07-2024**	**8**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001706		Acceptable					15-07-2024		
6/90591/1/CWTPW039		**0**	**12-07-2024**	**8**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001707		Acceptable					15-07-2024		
10/90591/1/CWTPW039		**0**	**12-07-2024**	**8**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001708		Acceptable					15-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90591/1/CWTPW075	**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001885		Acceptable				30-07-2024		
3/90591/1/CWTPW075	**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001886		Acceptable				30-07-2024		
4/90591/1/CWTPW075	**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001887		Acceptable				30-07-2024		
8/90591/1/CWTPW075	**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90591/1/CWTPW092	**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90591/1/CWTPW092	**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
5/90591/1/CWTPW092	**0**	**26-07-2024**	**10**	**GX14**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90591/1/CWTPW093		**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90591/1/CWTPW093		**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90591/1/CWTPW093		**0**	**26-07-2024**	**10**	**GX14**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**26-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90591/1/CWTPW094		**0**	**03-02-2025**	**43**	**OM115**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90591/1/CWTPW094		**0**	**04-02-2025**	**44**	**OM115**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,159 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90591/1/CWTPW094		**0**	**04-02-2025**	**44**	**OM115**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90591/1/CWTPW094		**0**	**04-02-2025**	**44**	**OM115**		**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**04-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90591**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**4,56 m**	**30 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,56 m**	**30 Nr. Welds**
		Accepted	**4,56 m**	**30 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90593/1/CWTPW005	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001715		Acceptable				12-07-2024		
5/90593/1/CWTPW005	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001716		Acceptable				12-07-2024		
6/90593/1/CWTPW005	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001717		Acceptable				12-07-2024		
10/90593/1/CWTPW005	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001718		Acceptable				12-07-2024		
1/90593/1/CWTPW006	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001719		Acceptable				12-07-2024		
5/90593/1/CWTPW006	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001720		Acceptable				12-07-2024		
6/90593/1/CWTPW006	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001721		Acceptable				12-07-2024		
10/90593/1/CWTPW006	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001722		Acceptable				12-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90593/1/CWTPW010	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001723		Acceptable				12-07-2024		
5/90593/1/CWTPW010	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001724		Acceptable				12-07-2024		
6/90593/1/CWTPW010	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001725		Acceptable				12-07-2024		
10/90593/1/CWTPW010	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001726		Acceptable				12-07-2024		
1/90593/1/CWTPW011	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001727		Acceptable				12-07-2024		
5/90593/1/CWTPW011	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001728		Acceptable				12-07-2024		
6/90593/1/CWTPW011	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001729		Acceptable				12-07-2024		
10/90593/1/CWTPW011	**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001731		Acceptable				12-07-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cons / NOTE	Accept. Date
1/90593/1/CWTPW044		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001754		Acceptable				12-07-2024			
3/90593/1/CWTPW044		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001755		Acceptable				12-07-2024			
4/90593/1/CWTPW044		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90593/1/CWTPW044		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90593/1/CWTPW050		**0**	**11-07-2024**	**7**	**GX14**			**C**	**260,00 mm**	**14,00 mm**	**1/2V**	**0,093 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90593/1/CWTPW050		**0**	**11-07-2024**	**7**	**GX14**			**C**	**260,00 mm**	**14,00 mm**	**1/2V**	**0,093 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90593/1/CWTPW083		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001732		Acceptable				12-07-2024			
5/90593/1/CWTPW083		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001733		Acceptable				12-07-2024			
6/90593/1/CWTPW083		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001734		Acceptable				12-07-2024			
10/90593/1/CWTPW083		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001735		Acceptable				12-07-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90593/1/CWTPW084		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001736		Acceptable					12-07-2024		
5/90593/1/CWTPW084		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001737		Acceptable					12-07-2024		
6/90593/1/CWTPW084		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001738		Acceptable					12-07-2024		
10/90593/1/CWTPW084		**0**	**11-07-2024**	**7**	**GX14**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	TN	50 %	001740		Acceptable					12-07-2024		
1/90593/1/CWTPW097		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001757		Acceptable					12-07-2024		
5/90593/1/CWTPW097		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001741		Acceptable					12-07-2024		
6/90593/1/CWTPW097		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001742		Acceptable					12-07-2024		
10/90593/1/CWTPW097		**0**	**11-07-2024**	**7**	**GX14**			**IPE**	**330,00 mm**	**11,50 mm**	**1/2V**	**0,160 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	TN	50 %	001744		Acceptable					12-07-2024		

Totals per DWG	**90593**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**8,66 m**	**34 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,66 m**	**34 Nr. Welds**
		Accepted	**8,66 m**	**34 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90594/1/CWTPW014		**0**	**12-07-2024**	**8**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001709		Acceptable				15-07-2024			
2/90594/1/CWTPW014		**0**	**11-07-2024**	**7**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001749		Acceptable				12-07-2024			
1/90594/1/CWTPW017		**0**	**12-07-2024**	**8**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001710		Acceptable				15-07-2024			
2/90594/1/CWTPW017		**0**	**11-07-2024**	**7**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001751		Acceptable				12-07-2024			
1/90594/1/CWTPW018		**0**	**12-07-2024**	**8**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001711		Acceptable				15-07-2024			
2/90594/1/CWTPW018		**0**	**11-07-2024**	**7**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001752		Acceptable				12-07-2024			
1/90594/1/CWTPW020		**0**	**31-07-2024**	**11**	**GX14**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	50 %	001994		Acceptable				02-08-2024			
2/90594/1/CWTPW020		**0**	**31-07-2024**	**11**	**GX14**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	50 %	001995		Acceptable				02-08-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90594/1/CWTPW021		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	BLU	50 %	001996		Acceptable				02-08-2024			
2/90594/1/CWTPW021		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	BLU	50 %	001997		Acceptable				02-08-2024			
1/90594/1/CWTPW022		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90594/1/CWTPW022		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90594/1/CWTPW024		**0**	**04-02-2025**	**46**	**OM115**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,642 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	002624		Acceptable				12-02-2025			
2/90594/1/CWTPW024		**0**	**26-07-2024**	**10**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90594/1/CWTPW024		**0**	**04-02-2025**	**46**	**OM115**		**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,460 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**12-02-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	100 %	002625		Acceptable				12-02-2025			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cont. / NOTE	Accept. Date
1/90594/1/CWTPW027		**0**	**26-07-2024**	**10**	**GX14**		**PIPE**		**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90594/1/CWTPW027		**0**	**26-07-2024**	**10**	**GX14**		**PIPE**		**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90594/1/CWTPW028		**0**	**01-07-2024**	**16**	**GX14**		**PIPE**		**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90594/1/CWTPW028		**0**	**01-07-2024**	**16**	**GX14**		**PIPE**		**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90594/1/CWTPW029		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**		**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90594/1/CWTPW029		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**		**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90594/1/CWTPW095		**0**	**26-07-2024**	**10**	**GX14**		**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90594/1/CWTPW095		**0**	**26-07-2024**	**10**	**GX14**		**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,857 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90594**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**16,61 m**	**23 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**16,61 m**	**23 Nr. Welds**
		Accepted	**16,61 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90595/1/CWTPW015		**0**	**10-02-2025**	**57**	**OM115**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002645		Acceptable				14-02-2025			
2/90595/1/CWTPW015		**0**	**11-07-2024**	**7**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90595/1/CWTPW016		**0**	**10-02-2025**	**57**	**OM115**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90595/1/CWTPW016		**0**	**11-07-2024**	**7**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90595/1/CWTPW019		**0**	**01-07-2024**	**16**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90595/1/CWTPW019		**0**	**11-07-2024**	**7**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**11-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90595/1/CWTPW023		**0**	**12-07-2024**	**8**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,642 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	100 %	001712		Acceptable				15-07-2024			
2/90595/1/CWTPW023		**0**	**12-07-2024**	**8**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	001713		Acceptable				15-07-2024			
3/90595/1/CWTPW023		**0**	**12-07-2024**	**8**	**GX14**			**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,460 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	100 %	001714		Acceptable				15-07-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90595/1/CWTPW025		**0**	**01-07-2024**	**16**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90595/1/CWTPW025		**0**	**03-02-2025**	**37**	**OM115**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002646		Acceptable					14-02-2025		
1/90595/1/CWTPW026		**0**	**01-07-2024**	**16**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90595/1/CWTPW026		**0**	**01-07-2024**	**16**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90595/1/CWTPW030		**0**	**03-02-2025**	**37**	**OM115**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002647		Acceptable					14-02-2025		
2/90595/1/CWTPW030		**0**	**03-02-2025**	**37**	**OM115**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,687 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**04-02-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90595/1/CWTPW032		**0**	**31-07-2024**	**11**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,812 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0234 02	BLU	50 %	001999		Acceptable					02-08-2024		
2/90595/1/CWTPW032		**0**	**31-07-2024**	**11**	**GX14**			**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,959 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BLU	50 %	001991		Acceptable					02-08-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90595/1/CWTPW033		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,812 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0234 02	BLU	50 %	002000		Acceptable				02-08-2024		
2/90595/1/CWTPW033		**0**	**31-07-2024**	**11**	**GX14**		**PIPE**	**219,10 mm**	**10,30 mm**	**1/2V**	**0,959 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**02-08-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	BLU	50 %	001992		Acceptable				02-08-2024		

Totals per DWG	**90595**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**13,61 m**	**19 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,61 m**	**19 Nr. Welds**
		Accepted	**13,61 m**	**19 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
7/90597/1/CWUG003	**01**	**30-05-2024**	**28-57**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
				OM115	**After Cutting**											
III	UT		FIN	Weld Completion			50 %			Acceptable						
	UT	C 1	DTA	After Cutting			50 %			Acceptable						
36/90597/1/CWUG003	**01**	**03-06-2024**	**29**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT		FIN	Weld Completion			50 %			Acceptable						
56/90597/1/CWUG003	**01**	**03-06-2024**	**29-58**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
				OM115	**After Cutting**											
III	UT		FIN	Weld Completion			50 %			Acceptable						
	UT	C 1	DTA	After Cutting	IDL-QCI-UT 0222 02	ROM	50 %	000206		Acceptable				06-06-2025		

Totals per DWG	**90597**	**Prefabrication**	**0,45 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,45 m**	**3 Nr. Welds**
		Accepted	**0,45 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
7/90598/1/CWUG004	**01**	**30-05-2024**	**28-51**	**GX08**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
				OM115	**After Cutting**											
III	UT		FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000027		Acceptable				11-06-2024		
	UT	C 1	DTA	After Cutting	IDL-QCI-UT 0222 02	ROM	50 %	000211		Acceptable				06-06-2025		
33/90598/1/CWUG004	**01**	**30-05-2024**	**28**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-05-2024**
III	UT		FIN	Weld Completion			50 %			Acceptable						
56/90598/1/CWUG004	**01**	**30-05-2024**	**28-52**	**GX37**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
				OM115	**After Cutting**											
III	UT		FIN	Weld Completion			50 %			Acceptable						
	UT	C 1	DTA	After Cutting			50 %			Acceptable						

Totals per DWG	**90598**	**Prefabrication**	**0,45 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,45 m**	**3 Nr. Welds**
		Accepted	**0,45 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000004		Acceptable				04-06-2024			
2/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000001		Acceptable				04-06-2024			
4/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000002		Acceptable				04-06-2024			
5/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000003		Acceptable				04-06-2024			
7/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RS	50 %	000016		Acceptable				06-06-2024			
8/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RS	50 %	000013		Acceptable				04-06-2024			
10/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RS	50 %	000014		Acceptable				04-06-2024			
11/90599/1/CWUG005		**01**	**30-05-2024**	**28**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	RS	50 %	000015		Acceptable				04-06-2024			
23/90599/1/CWUG005		**01**	**12-06-2024**	**35-53**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
					OM115	**After Cutting**												
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000030		Acceptable				13-06-2024			
		UT	C 1 DTA	After Cutting				50 %			Acceptable							
43/90599/1/CWUG005		**01**	**12-06-2024**	**35**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000029		Acceptable				13-06-2024			
60/90599/1/CWUG005		**01**	**12-06-2024**	**35-54**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
					OM115	**After Cutting**												
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000028		Acceptable				13-06-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
60/90599/1/CWUG005		**01**	**12-06-2024**	**35-54**	**GX14**		**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
					OM115 After Cutting												
		UT	C 1 DTA	After Cutting	IDL-QCI-UT 0222 02	ROM	50 %	000210		Acceptable				06-06-2025			
67/90599/1/CWUG005		**01**	**21-05-2025**	**55**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	000207		Acceptable				06-06-2025			
68/90599/1/CWUG005		**01**	**21-05-2025**	**55**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,880 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	000208		Acceptable				06-06-2025			
69/90599/1/CWUG005		**01**	**21-05-2025**	**55**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,230 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	000209		Acceptable				06-06-2025			
70/90599/1/CWUG005		**01**	**21-05-2025**	**55**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
71/90599/1/CWUG005		**01**	**21-05-2025**	**55**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,880 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
72/90599/1/CWUG005		**01**	**21-05-2025**	**55**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,230 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90599**	**Prefabrication**	**5,87 m**	**17 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,87 m**	**17 Nr. Welds**
		Accepted	**5,87 m**	**17 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000005		Acceptable				04-06-2024			
2/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000006		Acceptable				04-06-2024			
4/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000007		Acceptable				04-06-2024			
5/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000008		Acceptable				04-06-2024			
7/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000009		Acceptable				04-06-2024			
8/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000010		Acceptable				04-06-2024			
10/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000011		Acceptable				04-06-2024			
11/90600/1/CWUG006		**01**	**30-05-2024**	**28**	**GX08**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**04-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	MM	50 %	000012		Acceptable				04-06-2024			
23/90600/1/CWUG006		**01**	**03-06-2024**	**29-47**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
					OM115	**After Cutting**												
	III	UT	FIN	Weld Completion				50 %			Acceptable							
		UT	C 1 DTA	After Cutting				50 %			Acceptable							
46/90600/1/CWUG006		**01**	**03-06-2024**	**29**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
60/90600/1/CWUG006		**01**	**10-06-2024**	**33-48**	**GX14**			**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
					OM115	**After Cutting**												
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
60/90600/1/CWUG006		**01**	**10-06-2024**	**33-48**	**GX14**		**PL**	**150,00 mm**	**10,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
					OM115 **After Cutting**												
		UT	C 1 DTA	After Cutting			50 %			Acceptable							
67/90600/1/CWUG006		**01**	**14-05-2025**	**49**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	000212		Acceptable					06-06-2025		
68/90600/1/CWUG006		**01**	**14-05-2025**	**49**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,880 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	000213		Acceptable					06-06-2025		
69/90600/1/CWUG006		**01**	**14-05-2025**	**49**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,230 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	ROM	50 %	000214		Acceptable					06-06-2025		
70/90600/1/CWUG006		**01**	**14-05-2025**	**49**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
71/90600/1/CWUG006		**01**	**14-05-2025**	**49**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,880 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
72/90600/1/CWUG006		**01**	**14-05-2025**	**49**	**OM115**		**PL**	**650,00 mm**	**15,00 mm**	**1/2V**	**0,230 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-06-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90600**	**Prefabrication**	**5,87 m**	**17 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,87 m**	**17 Nr. Welds**
		Accepted	**5,87 m**	**17 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep		Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90602/1/CWUG011		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
III	UT		FIN	Weld Completion			50 %				Acceptable							
2/90602/1/CWUG011		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
III	UT		FIN	Weld Completion			50 %				Acceptable							
3/90602/1/CWUG011		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
III	UT		FIN	Weld Completion			50 %				Acceptable							
4/90602/1/CWUG011		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
III	UT		FIN	Weld Completion			50 %				Acceptable							
1/90602/1/CWUG012		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	GMA	50 %	000053		Acceptable					15-06-2024		
2/90602/1/CWUG012		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	GMA	50 %	000054		Acceptable					15-06-2024		
3/90602/1/CWUG012		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	GMA	50 %	000055		Acceptable					15-06-2024		
4/90602/1/CWUG012		**0**	**10-06-2024**	**33**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	GMA	50 %	000056		Acceptable					15-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90602/1/CWUG013		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	GMA	50 %	000052		Acceptable					15-06-2024		
2/90602/1/CWUG013		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000020		Acceptable					11-06-2024		
3/90602/1/CWUG013		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000021		Acceptable					11-06-2024		
4/90602/1/CWUG013		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000022		Acceptable					11-06-2024		
1/90602/1/CWUG014		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000023		Acceptable					11-06-2024		
2/90602/1/CWUG014		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000024		Acceptable					11-06-2024		
3/90602/1/CWUG014		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000025		Acceptable					11-06-2024		
4/90602/1/CWUG014		**0**	**06-06-2024**	**31**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,700 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000026		Acceptable					11-06-2024		

Totals per DWG	**90602**	**Prefabrication**	**11,20 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**11,20 m**	**16 Nr. Welds**
		Accepted	**11,20 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90604/1/CWUG007		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**07-06-2024**
III	UT		FIN	Weld Completion				50 %			Acceptable							
5/90604/1/CWUG007		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000050		Acceptable					13-06-2024		
6/90604/1/CWUG007		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000051		Acceptable					13-06-2024		
10/90604/1/CWUG007		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000049		Acceptable					13-06-2024		
1/90604/1/CWUG008		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000048		Acceptable					13-06-2024		
5/90604/1/CWUG008		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000045		Acceptable					13-06-2024		
6/90604/1/CWUG008		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000046		Acceptable					13-06-2024		
10/90604/1/CWUG008		**01**	**07-06-2024**	**3**	**GX14**			**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000047		Acceptable					13-06-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90604/1/CWUG009		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000044		Acceptable				13-06-2024		
5/90604/1/CWUG009		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000042		Acceptable				13-06-2024		
6/90604/1/CWUG009		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000043		Acceptable				13-06-2024		
10/90604/1/CWUG009		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000041		Acceptable				13-06-2024		
1/90604/1/CWUG010		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000039		Acceptable				13-06-2024		
5/90604/1/CWUG010		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000040		Acceptable				13-06-2024		
6/90604/1/CWUG010		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000038		Acceptable				13-06-2024		
10/90604/1/CWUG010		**01**	**07-06-2024**	**3**	**GX14**		**PL**	**300,00 mm**	**40,00 mm**	**K**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	GMA	50 %	000037		Acceptable				13-06-2024		

Totals per DWG	**90604**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**4,80 m**	**16 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,80 m**	**16 Nr. Welds**
		Accepted	**4,80 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
7/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90605/1/CWUG001		**01**	**10-06-2024**	**4**	**GX14**		**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90605/1/CWUG011		**01**	**13-06-2024**	**5**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
7/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
11/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
12/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
12/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
13/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
14/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
15/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
16/90605/1/CWUG011		**01**	**12-06-2024**	**6**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
1/90605/1/CWUG013		**01**	**10-06-2024**	**4**	**GX14**			**PL**		**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM		50 %	000057		Acceptable					13-06-2024		
2/90605/1/CWUG013		**01**	**10-06-2024**	**4**	**GX14**			**PL**		**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM		50 %	000058		Acceptable					13-06-2024		
3/90605/1/CWUG013		**01**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
4/90605/1/CWUG013		**01**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
5/90605/1/CWUG013		**01**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
6/90605/1/CWUG013		**01**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
7/90605/1/CWUG013		**01**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
7/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
8/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
9/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**	IDL-QCI-UT 0216 04	GMA	**PL**	50 %	**694,00 mm** / 000035	**40,00 mm**	**K** / Acceptable	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW** / 13-06-2024	**BW**	**13-06-2024**
10/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**	IDL-QCI-UT 0216 04	GMA	**PL**	50 %	**694,00 mm** / 000036	**40,00 mm**	**K** / Acceptable	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW** / 13-06-2024	**BW**	**13-06-2024**
11/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
12/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
13/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
14/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
15/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
16/90605/1/CWUG013	III	**01** / UT	**10-06-2024** / FIN	**4** / Weld Completion	**GX14**			**PL**	50 %	**914,00 mm**	**20,00 mm**	**1/2V** / Acceptable	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**

Totals per DWG	**90605**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**18,96 m**	**40 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**18,96 m**	**40 Nr. Welds**
		Accepted	**18,96 m**	**40 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	RS	50 %	000017		Acceptable					06-06-2024		
2/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	RS	50 %	000018		Acceptable					06-06-2024		
3/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	RS	50 %	000019		Acceptable					06-06-2024		
4/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,497 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90606/1/CWUG002	**0**	**03-06-2024**	**2**	**GX14**			**PIPE**	**355,60 mm**	**15,09 mm**	**1/2V**	**0,499 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**03-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90606/1/CWUG012		**0**	**13-06-2024**	**5**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
7/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
11/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
12/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
12/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
13/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
14/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
15/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
16/90606/1/CWUG012		**0**	**12-06-2024**	**6**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000034		Acceptable					13-06-2024		
2/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**	**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA	50 %	000033		Acceptable					13-06-2024		
3/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
7/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
8/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
9/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA		50 %	000031		Acceptable					13-06-2024		
10/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**694,00 mm**	**40,00 mm**	**K**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**13-06-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	GMA		50 %	000032		Acceptable					13-06-2024		
11/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
12/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
13/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
14/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
15/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,880 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
16/90606/1/CWUG014		**0**	**10-06-2024**	**4**	**GX14**			**PL**		**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							

Totals per DWG	**90606**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**18,96 m**	**40 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**18,96 m**	**40 Nr. Welds**
		Accepted	**18,96 m**	**40 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
16/90606/1/CWUG014	**0**	**10-06-2024**	**4**	**GX14**		**PL**	**914,00 mm**	**20,00 mm**	**1/2V**	**0,118 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-06-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90629/1/CWPAUN001	**0**	**18-06-2024**	**42**	**DM22**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90629/1/CWPAUN004	**0**	**18-06-2024**	**42**	**DM22**		**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90629**	**Prefabrication**	**2,88 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,88 m**	**2 Nr. Welds**
		Accepted	**2,88 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90630/1/CWPAUN002	**0**	**17-06-2024**	**41**	**DM22**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	001527		Acceptable				19-06-2024		
2/90630/1/CWPAUN003	**0**	**17-06-2024**	**41**	**DM09**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	001528		Acceptable				19-06-2024		

Totals per DWG	**90630**	**Prefabrication**	**2,88 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,88 m**	**2 Nr. Welds**
		Accepted	**2,88 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90631/1/CWPAUN005	**0**	**17-06-2024**	**41**	**DM07**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	001529		Acceptable				19-06-2024		
2/90631/1/CWPAUN006	**0**	**18-06-2024**	**42**	**DM07**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
2/90631/1/CWPAUN007	**0**	**18-06-2024**	**42**	**DM09**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
2/90631/1/CWPAUN008	**0**	**17-06-2024**	**41**	**DM09**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-06-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	001530		Acceptable				19-06-2024		

Totals per DWG	**90631**	**Prefabrication**	**5,12 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,12 m**	**4 Nr. Welds**
		Accepted	**5,12 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90635/1/CWPAUP015		**0**	**05-07-2024**	**4**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BLU	50 %	001681		Acceptable					08-07-2024		
2/90635/1/CWPAUP015		**0**	**05-07-2024**	**4**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90635/1/CWPAUP015		**0**	**05-07-2024**	**4**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90635/1/CWPAUP015		**0**	**05-07-2024**	**4**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
7/90635/1/CWPAUP015		**0**	**06-07-2024**	**7**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90635/1/CWPAUP015		**0**	**06-07-2024**	**7**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90635/1/CWPAUP015		**0**	**06-07-2024**	**7**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90635/1/CWPAUP015		**0**	**06-07-2024**	**7**	**RM87**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90635/1/CWPAUP016		**0**	**04-07-2024**	**1**	**RM91**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	001672		Acceptable				05-07-2024			
2/90635/1/CWPAUP016		**0**	**04-07-2024**	**1**	**RM91**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90635/1/CWPAUP016		**0**	**04-07-2024**	**1**	**RM91**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90635/1/CWPAUP016		**0**	**04-07-2024**	**1**	**RM91**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90635/1/CWPAUP016		**0**	**05-07-2024**	**3**	**RM87**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	50 %	001682		Acceptable				08-07-2024			
8/90635/1/CWPAUP016		**0**	**05-07-2024**	**3**	**RM87**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
9/90635/1/CWPAUP016		**0**	**05-07-2024**	**3**	**RM87**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90635/1/CWPAUP016		**0**	**05-07-2024**	**3**	**RM87**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90635/1/CWPAUP017	III	**0** / UT	**05-07-2024** / FIN	**4** Weld Completion	**RM82**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
2/90635/1/CWPAUP017	III	**0** / UT	**05-07-2024** / FIN	**4** Weld Completion	**RM82**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
3/90635/1/CWPAUP017	III	**0** / UT	**05-07-2024** / FIN	**4** Weld Completion	**RM82**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
4/90635/1/CWPAUP017	III	**0** / UT	**05-07-2024** / FIN	**4** Weld Completion	**RM82**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
7/90635/1/CWPAUP017	III	**0** / UT	**06-07-2024** / FIN	**7** Weld Completion	**RM90**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**
8/90635/1/CWPAUP017	III	**0** / UT	**06-07-2024** / FIN	**7** Weld Completion	**RM90**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**
9/90635/1/CWPAUP017	III	**0** / UT	**06-07-2024** / FIN	**7** Weld Completion	**RM90**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**
10/90635/1/CWPAUP017	III	**0** / UT	**06-07-2024** / FIN	**7** Weld Completion	**RM90**		**PIPE** 50 %	**273,10 mm**	**15,90 mm**	**1/2V** Acceptable	**0,400 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-07-2024**

Totals per DWG	**90635**			
		Prefabrication	**9,60 m**	**24 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**9,60 m**	**24 Nr. Welds**
		Accepted	**9,60 m**	**24 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90636/1/CWPAUP009		**0**	**04-07-2024**	**1**	**RM91**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90636/1/CWPAUP009		**0**	**04-07-2024**	**1**	**RM90**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	50 %	001673		Acceptable				05-07-2024			
3/90636/1/CWPAUP009		**0**	**04-07-2024**	**1**	**RM84**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90636/1/CWPAUP009		**0**	**04-07-2024**	**1**	**RM85**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90636/1/CWPAUP010		**0**	**04-07-2024**	**1**	**RM81**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	MM	50 %	001671		Acceptable				05-07-2024			
2/90636/1/CWPAUP010		**0**	**04-07-2024**	**1**	**RM88**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90636/1/CWPAUP010		**0**	**04-07-2024**	**1**	**RM81**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90636/1/CWPAUP010		**0**	**04-07-2024**	**1**	**RM81**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**04-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90636/1/CWPAUP011		**0**	**05-07-2024**	**4**	**RM8A**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90636/1/CWPAUP011		**0**	**05-07-2024**	**4**	**RM8A**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90636/1/CWPAUP011		**0**	**05-07-2024**	**4**	**RM8A**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90636/1/CWPAUP011		**0**	**05-07-2024**	**4**	**RM8A**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BLU	50 %	001684		Acceptable					08-07-2024		
1/90636/1/CWPAUP012		**0**	**05-07-2024**	**6**	**RM90**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90636/1/CWPAUP012		**0**	**05-07-2024**	**6**	**RM90**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BLU	50 %	001683		Acceptable					08-07-2024		
3/90636/1/CWPAUP012		**0**	**05-07-2024**	**6**	**RM90**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90636/1/CWPAUP012		**0**	**05-07-2024**	**6**	**RM90**		**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**0,500 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90636**	**Prefabrication**	**8,00 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,00 m**	**16 Nr. Welds**
		Accepted	**8,00 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90638/1/CWLG020		**1**	**17-06-2024**	**9**	**SID_C**		**PIPE**	**700,00 mm**	**30,00 mm**	**X**	**0,300 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**25-06-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	RID	100 %	001586		Acceptable					25-06-2024		

Totals per DWG	**90638**	**Prefabrication**	**0,30 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,30 m**	**1 Nr. Welds**
		Accepted	**0,30 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90647/1/CWLHAT005	**3**	**13-02-2025**	**470**	**AX414**		**PIPE**	**406,40 mm**	**9,52 mm**	**V**	**1,270 m**	**M**	**C.S.**	**2T**	**GTAW**	**BW**	**15-02-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90647/1/CWLHAT006	**3**	**13-02-2025**	**470**	**AX414**		**PIPE**	**406,40 mm**	**9,52 mm**	**V**	**1,270 m**	**M**	**C.S.**	**2T**	**GTAW**	**BW**	**15-02-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90647**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**2,54 m**	**2 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,54 m**	**2 Nr. Welds**
		Accepted	**2,54 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90650/1/CWPAUB001		**0**	**10-09-2024**	**19**	**RM91**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002328		Acceptable					12-09-2024		
5/90650/1/CWPAUB001		**0**	**10-09-2024**	**19**	**RM91**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002329		Acceptable					12-09-2024		
6/90650/1/CWPAUB001		**0**	**10-07-2024**	**4**	**RM90**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90650/1/CWPAUB001		**0**	**10-07-2024**	**4**	**RM90**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90650/1/CWPAUB002		**0**	**09-07-2024**	**2**	**RM86**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001700		Acceptable					10-07-2024		
5/90650/1/CWPAUB002		**0**	**09-07-2024**	**2**	**RM86**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	001701		Acceptable					10-07-2024		
6/90650/1/CWPAUB002		**0**	**10-09-2024**	**19**	**RM85**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002330		Acceptable					12-09-2024		
10/90650/1/CWPAUB002		**0**	**10-09-2024**	**19**	**RM85**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002331		Acceptable					12-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90650/1/CWPAUB003		**0**	**10-09-2024**	**19**	**RM91**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002335		Acceptable					12-09-2024		
5/90650/1/CWPAUB003		**0**	**10-09-2024**	**19**	**RM91**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002325		Acceptable					12-09-2024		
6/90650/1/CWPAUB003		**0**	**10-07-2024**	**4**	**RM91**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90650/1/CWPAUB003		**0**	**10-07-2024**	**4**	**RM91**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90650/1/CWPAUB004		**0**	**09-07-2024**	**2**	**RM84**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90650/1/CWPAUB004		**0**	**09-07-2024**	**2**	**RM84**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**09-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90650/1/CWPAUB004		**0**	**10-09-2024**	**19**	**RM81**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002326		Acceptable					12-09-2024		
10/90650/1/CWPAUB004		**0**	**10-09-2024**	**19**	**RM81**			**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**12-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	ROM	50 %	002327		Acceptable					12-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90650/1/CWPAUB005		**0**	**08-07-2024**	**1**	**RM87**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90650/1/CWPAUB005		**0**	**08-07-2024**	**1**	**RM84**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90650/1/CWPAUB005		**0**	**08-07-2024**	**1**	**RM87**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**08-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
10/90650/1/CWPAUB005		**0**	**08-07-2024**	**1**	**RM84**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	50 %	001699		Acceptable					10-07-2024		
1/90650/1/CWPAUB006		**0**	**09-07-2024**	**2**	**RM84**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	50 %	001698		Acceptable					10-07-2024		
5/90650/1/CWPAUB006		**0**	**09-07-2024**	**2**	**RM84**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	50 %	001695		Acceptable					10-07-2024		
6/90650/1/CWPAUB006		**0**	**09-07-2024**	**2**	**RM92**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	50 %	001696		Acceptable					10-07-2024		
10/90650/1/CWPAUB006		**0**	**09-07-2024**	**3**	**RM92**		**HEB**	**600,00 mm**	**30,00 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**10-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	ROM	50 %	001697		Acceptable					10-07-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90650/1/CWPAUP001		**0**	**12-09-2024**	**20**	**RM84**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002344		Acceptable					16-09-2024		
2/90650/1/CWPAUP001		**0**	**14-10-2024**	**443**	**AX416**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	100 %	002402		Acceptable					22-10-2024		
1/90650/1/CWPAUP002		**0**	**14-09-2024**	**22**	**RM81**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002337		Acceptable					16-09-2024		
2/90650/1/CWPAUP002		**0**	**15-10-2024**	**444**	**AX410**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	100 %	002403		Acceptable					22-10-2024		
1/90650/1/CWPAUP003		**0**	**10-09-2024**	**21**	**RM88**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002341		Acceptable					16-09-2024		
2/90650/1/CWPAUP003		**0**	**11-10-2024**	**441**	**AX416**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	100 %	002379		Acceptable					22-10-2024		
1/90650/1/CWPAUP004		**0**	**14-09-2024**	**22**	**RM81**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002338		Acceptable					16-09-2024		
2/90650/1/CWPAUP004		**0**	**11-10-2024**	**441-455**	**AX410**			**PIPE**	**406,40 mm**	**15,90 mm**	**1/2V**	**1,276 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
					AX25	**Repair done**												
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	002380		Repair				0,445 m	21-10-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0222 02	TN	100 %	002419		Acceptable					25-10-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90650/1/CWPAUP005	**0**	**14-09-2024**	**22**	**RM89**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002339		Acceptable				16-09-2024		
2/90650/1/CWPAUP005	**0**	**11-10-2024**	**441-457**	**AX427**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
				AX25	**Repair done**											
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	002381		Repair			0,195 m	17-10-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0223 02	TN	100 %	002412		Acceptable				25-10-2024		
1/90650/1/CWPAUP006	**0**	**10-09-2024**	**21**	**RM90**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002342		Acceptable				16-09-2024		
2/90650/1/CWPAUP006	**0**	**10-10-2024**	**442-456**	**AX427**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
				AX25	**Repair done**											
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	002376		Repair			0,265 m	16-10-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0223 02	TN	100 %	002411		Acceptable				25-10-2024		
1/90650/1/CWPAUP007	**0**	**14-09-2024**	**22**	**RM85**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002340		Acceptable				16-09-2024		
2/90650/1/CWPAUP007	**0**	**11-10-2024**	**440-455**	**AX410**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
				AX25	**Repair done**											
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	002377		Repair			0,025 m	16-10-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0223 02	TN	100 %	002410		Acceptable				25-10-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90650/1/CWPAUP008	**0**	**10-09-2024**	**21**	**RM83**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**16-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002343		Acceptable				16-09-2024		
2/90650/1/CWPAUP008	**0**	**11-10-2024**	**440-457**	**AX416**			**PIPE**	**457,20 mm**	**19,10 mm**	**1/2V**	**1,435 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
				AX25	**Repair done**											
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	100 %	002378		Repair			0,185 m	17-10-2024		
	UT	R1 DRI	After Repair		IDL-QCI-UT 0223 02	TN	100 %	002413		Acceptable				25-10-2024		
1/90650/1/CWPAUP009	**0**	**15-10-2024**	**446-456**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,732 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
				AX25	**Repair done**											
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002386		Repair			0,100 m	22-10-2024		
	UT	R1 DRI	After Repair		IDL-QCI-UT 0222 02	TN	50 %	002421		Acceptable				25-10-2024		
2/90650/1/CWPAUP009	**0**	**16-10-2024**	**447**	**AX416**			**PL**	**575,00 mm**	**12,70 mm**	**1/2V**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-10-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	002398		Acceptable				21-10-2024		
1/90650/1/CWPAUP010	**0**	**22-10-2024**	**453**	**AX416**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,732 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002418		Acceptable				25-10-2024		
2/90650/1/CWPAUP010	**0**	**16-10-2024**	**449**	**AX411**			**PL**	**575,00 mm**	**12,70 mm**	**1/2V**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	100 %	002414		Acceptable				25-10-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90650/1/CWPAUP011	**0**	**17-10-2024**	**448**	**AX25**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,732 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002399		Acceptable				22-10-2024		
2/90650/1/CWPAUP011	**0**	**15-10-2024**	**445**	**AX25**			**PL**	**575,00 mm**	**12,70 mm**	**1/2V**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-10-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	002395		Acceptable				17-10-2024		
1/90650/1/CWPAUP012	**0**	**16-10-2024**	**449**	**AX410**			**PIPE**	**323,90 mm**	**12,70 mm**	**1/2V**	**1,732 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002400		Acceptable				22-10-2024		
2/90650/1/CWPAUP012	**0**	**15-10-2024**	**445**	**AX410**			**PL**	**575,00 mm**	**12,70 mm**	**1/2V**	**0,750 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-10-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	100 %	002396		Acceptable				17-10-2024		
1/90650/1/CWPAUP013	**0**	**17-07-2024**	**13**	**RM89**			**PIPE**	**355,60 mm**	**15,90 mm**	**1/2V**	**1,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VR	50 %	001825		Acceptable				26-07-2024		
2/90650/1/CWPAUP013	**0**	**17-07-2024**	**13**	**RM90**			**PIPE**	**355,60 mm**	**15,90 mm**	**1/2V**	**1,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable						
1/90650/1/CWPAUP014	**0**	**13-07-2024**	**5**	**RM85**			**PIPE**	**355,60 mm**	**15,90 mm**	**1/2V**	**1,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	50 %	001704		Acceptable				15-07-2024		
2/90650/1/CWPAUP014	**0**	**15-07-2024**	**9**	**RM88**			**PIPE**	**355,60 mm**	**15,90 mm**	**1/2V**	**1,178 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001794		Acceptable				17-07-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90650/1/CWPAUP018	**0**	**21-10-2024**	**452**	**AX416**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,127 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002417		Acceptable				25-10-2024		
2/90650/1/CWPAUP018	**0**	**16-10-2024**	**449-455**	**AX416**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,042 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
				AX25	**Repair done**											
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	002382		Repair			0,160 m	21-10-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0222 02	TN	50 %	002420		Acceptable				25-10-2024		
1/90650/1/CWPAUP019	**0**	**21-10-2024**	**450**	**AX416**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,127 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002416		Acceptable				25-10-2024		
2/90650/1/CWPAUP019	**0**	**18-10-2024**	**451**	**AX411**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,042 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002385		Acceptable				22-10-2024		
1/90650/1/CWPAUP020	**0**	**18-10-2024**	**451-456**	**AX410**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,127 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
				AX25	**Repair done**											
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002384		Repair			0,070 m	22-10-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0222 02	TN	50 %	002422		Acceptable				25-10-2024		
2/90650/1/CWPAUP020	**0**	**16-10-2024**	**449-456**	**AX25**	**Welding + Repair done**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,042 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	MM	50 %	002383		Repair			0,030 m	17-10-2024		
	UT	R 1 DRI	After Repair		IDL-QCI-UT 0222 02	TN	50 %	002423		Acceptable				25-10-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90650/1/CWPAUP021		**0**	**21-10-2024**	**450**	**AX410**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,127 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002401		Acceptable					22-10-2024		
2/90650/1/CWPAUP021		**0**	**16-10-2024**	**449**	**AX410**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**1,042 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-10-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	TN	50 %	002415		Acceptable					25-10-2024		

Totals per DWG	**90650**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**52,28 m**	**60 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**52,28 m**	**60 Nr. Welds**
		Accepted	**52,28 m**	**60 Nr. Welds**
		Repaired	**1,48 m**	**9 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90651/1/CWPAUP022		**0**	**15-07-2024**	**12**	**RM87**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,849 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001805		Acceptable				22-07-2024			
2/90651/1/CWPAUP022		**0**	**15-07-2024**	**12**	**RM87**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,849 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001806		Acceptable				22-07-2024			
1/90651/1/CWPAUP023		**0**	**17-07-2024**	**13**	**RM87**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,849 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VR	50 %	001826		Acceptable				26-07-2024			
2/90651/1/CWPAUP023		**0**	**17-07-2024**	**13**	**RM87**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,824 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90651/1/CWPAUP024		**0**	**15-07-2024**	**9**	**RM87**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,824 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001795		Acceptable				17-07-2024			
2/90651/1/CWPAUP024		**0**	**15-07-2024**	**9**	**RM87**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,849 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001796		Acceptable				17-07-2024			
1/90651/1/CWPAUP025		**0**	**18-07-2024**	**16**	**RM82**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,824 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VR	50 %	001828		Acceptable				26-07-2024			
2/90651/1/CWPAUP025		**0**	**18-07-2024**	**16**	**RM82**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,849 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
1/90651/1/CWPAUP026	**0**	**15-07-2024**	**9**	**RM81**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,881 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001797		Acceptable					17-07-2024		
2/90651/1/CWPAUP026	**0**	**15-07-2024**	**9**	**RM81**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,907 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	001798		Acceptable					17-07-2024		
1/90651/1/CWPAUP027	**0**	**18-07-2024**	**16**	**RM82**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,881 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VR	50 %	001829		Acceptable					26-07-2024		
2/90651/1/CWPAUP027	**0**	**18-07-2024**	**16**	**RM82**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,907 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90651/1/CWPAUP028	**0**	**13-07-2024**	**5**	**RM84**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,907 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90651/1/CWPAUP028	**0**	**13-07-2024**	**5**	**RM85**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,881 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90651/1/CWPAUP029	**0**	**17-07-2024**	**13**	**RM90**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,907 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90651/1/CWPAUP029	**0**	**17-07-2024**	**13**	**RM90**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,881 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VR	50 %	001827		Acceptable					26-07-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90651/1/CWPAUP030		**0**	**13-07-2024**	**5**	**RM87**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,889 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90651/1/CWPAUP030		**0**	**13-07-2024**	**5**	**RM87**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,889 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90651/1/CWPAUP031		**0**	**13-07-2024**	**5-11**	**RM90**	**Welding + Repair done**		**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,889 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-07-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BLU	50 %	001703		Repair				0,110 m	15-07-2024		
		UT	R 1 DRI	After Repair		IDL-QCI-UT 0222 02	ROM	50 %	001799		Acceptable					17-07-2024		
2/90651/1/CWPAUP031		**0**	**13-07-2024**	**5**	**RM87**			**PIPE**	**273,10 mm**	**15,90 mm**	**1/2V**	**0,889 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90651/1/CWPAUP032		**0**	**23-09-2024**	**23**	**RM85**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002364		Acceptable					24-09-2024		
2/90651/1/CWPAUP032		**0**	**23-09-2024**	**23**	**RM85**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002365		Acceptable					24-09-2024		
1/90651/1/CWPAUP033		**0**	**23-09-2024**	**23**	**RM92**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002366		Acceptable					24-09-2024		
2/90651/1/CWPAUP033		**0**	**23-09-2024**	**23**	**RM92**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002367		Acceptable					24-09-2024		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90651/1/CWPAUP034	**0**	**23-09-2024**	**24**	**RM81**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002357		Acceptable				24-09-2024		
2/90651/1/CWPAUP034	**0**	**23-09-2024**	**24**	**RM81**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002358		Acceptable				24-09-2024		
1/90651/1/CWPAUP035	**0**	**23-09-2024**	**24**	**RM92**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002359		Acceptable				24-09-2024		
2/90651/1/CWPAUP035	**0**	**23-09-2024**	**24**	**RM90**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,845 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002360		Acceptable				24-09-2024		
1/90651/1/CWPAUP036	**0**	**23-09-2024**	**23**	**RM90**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002368		Acceptable				24-09-2024		
2/90651/1/CWPAUP036	**0**	**23-09-2024**	**23**	**RM90**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002369		Acceptable				24-09-2024		
1/90651/1/CWPAUP037	**0**	**23-09-2024**	**24**	**RM85**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002361		Acceptable				24-09-2024		
2/90651/1/CWPAUP037	**0**	**23-09-2024**	**24**	**RM85**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002362		Acceptable				24-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90651/1/CWPAUP038		**0**	**23-09-2024**	**24**	**RM84**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002363		Acceptable					24-09-2024		
2/90651/1/CWPAUP038		**0**	**23-09-2024**	**24**	**RM84**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002356		Acceptable					24-09-2024		
1/90651/1/CWPAUP039		**0**	**23-09-2024**	**23**	**RM81**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002370		Acceptable					24-09-2024		
2/90651/1/CWPAUP039		**0**	**23-09-2024**	**23**	**RM81**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,901 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-09-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002371		Acceptable					24-09-2024		
1/90651/1/CWPAUP040		**0**	**13-07-2024**	**5**	**RM91**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90651/1/CWPAUP040		**0**	**13-07-2024**	**5**	**RM91**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90651/1/CWPAUP041		**0**	**13-07-2024**	**5**	**RM91**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90651/1/CWPAUP041		**0**	**13-07-2024**	**5**	**RM90**			**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90651/1/CWPAUP042		**0**	**13-07-2024**	**5**	**RM84**		**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90651/1/CWPAUP042		**0**	**12-07-2024**	**6**	**RM84**		**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	BLU	50 %	001702		Acceptable					15-07-2024		
1/90651/1/CWPAUP043		**0**	**13-07-2024**	**5**	**RM81**		**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**13-07-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90651/1/CWPAUP043		**0**	**15-07-2024**	**8**	**RM85**		**PIPE**	**219,10 mm**	**12,70 mm**	**1/2V**	**0,855 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**26-07-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	VR	50 %	001824		Acceptable					26-07-2024		

Totals per DWG	**90651**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**38,31 m**	**44 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**38,31 m**	**44 Nr. Welds**
		Accepted	**38,31 m**	**44 Nr. Welds**
		Repaired	**0,11 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002657		Acceptable				19-02-2025		
2/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002658		Acceptable				19-02-2025		
3/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002659		Acceptable				19-02-2025		
4/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002660		Acceptable				19-02-2025		
5/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002661		Acceptable				19-02-2025		
6/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002662		Acceptable				19-02-2025		
7/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002663		Acceptable				19-02-2025		
8/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002664		Acceptable				19-02-2025		
9/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**185,00 mm**	**15,00 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002665		Acceptable				19-02-2025		
10/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**185,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
10/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**185,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002666		Acceptable					19-02-2025		
11/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002667		Acceptable					19-02-2025		
12/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002668		Acceptable					19-02-2025		
14/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002669		Acceptable					19-02-2025		
15/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002670		Acceptable					19-02-2025		
16/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002671		Acceptable					19-02-2025		
17/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002672		Acceptable					19-02-2025		
18/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002673		Acceptable					19-02-2025		
19/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002674		Acceptable					19-02-2025		
20/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15 OM115**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
20/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002675		Acceptable					19-02-2025		
21/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002676		Acceptable					19-02-2025		
22/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**185,00 mm**	**15,00 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002677		Acceptable					19-02-2025		
23/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**185,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002678		Acceptable					19-02-2025		
24/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002679		Acceptable					19-02-2025		
25/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002680		Acceptable					19-02-2025		
27/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002681		Acceptable					19-02-2025		
28/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002682		Acceptable					19-02-2025		
29/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002683		Acceptable					19-02-2025		
30/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
30/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002684		Acceptable					19-02-2025		
31/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002685		Acceptable					19-02-2025		
32/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002686		Acceptable					19-02-2025		
33/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002687		Acceptable					19-02-2025		
34/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002688		Acceptable					19-02-2025		
35/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**185,00 mm**	**15,00 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002689		Acceptable					19-02-2025		
36/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**185,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002690		Acceptable					19-02-2025		
37/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002691		Acceptable					19-02-2025		
38/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM		50 %	002692		Acceptable					19-02-2025		
40/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
40/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002693		Acceptable				19-02-2025		
41/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002694		Acceptable				19-02-2025		
42/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002695		Acceptable				19-02-2025		
43/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002696		Acceptable				19-02-2025		
44/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002697		Acceptable				19-02-2025		
45/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002698		Acceptable				19-02-2025		
46/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002699		Acceptable				19-02-2025		
47/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002700		Acceptable				19-02-2025		
48/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**185,00 mm**	**15,00 mm**	**1/2V**	**0,185 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002701		Acceptable				19-02-2025		
49/90653/1/CWTPWT001	**2**	**30-01-2025**	**43**	**OM15**			**PL**	**185,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
				OM115												

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
49/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15** **OM115**		**PL**	**185,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM	50 %	002702		Acceptable					19-02-2025		
50/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15** **OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM	50 %	002703		Acceptable					19-02-2025		
51/90653/1/CWTPWT001		**2**	**30-01-2025**	**43**	**OM15** **OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM	50 %	002704		Acceptable					19-02-2025		
164/90653/1/CWTPWT001		**2**	**08-11-2024**	**27**	**OM15**		**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**2,194 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002478		Acceptable					20-11-2024		
165/90653/1/CWTPWT001		**2**	**08-11-2024**	**27**	**OM115**		**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**2,199 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002479		Acceptable					20-11-2024		

Totals per DWG	**90653**			
		Prefabrication	**14,81 m**	**50 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**14,81 m**	**50 Nr. Welds**
		Accepted	**14,81 m**	**50 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
68/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,152 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												
	III	UT	FIN	Weld Completion			50 %			Acceptable							
73/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,151 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												
	III	UT	FIN	Weld Completion			50 %			Acceptable							
74/90654/1/CWTPWT001		**1**	**25-10-2024**	**16**	**OM609**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,152 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
76/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,151 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												
	III	UT	FIN	Weld Completion			50 %			Acceptable							
102/90654/1/CWTPWT001		**1**	**30-10-2024**	**20**	**OM616**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,152 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
107/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,151 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												
	III	UT	FIN	Weld Completion			50 %			Acceptable							
108/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,152 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												
	III	UT	FIN	Weld Completion			50 %			Acceptable							
110/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,151 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												
	III	UT	FIN	Weld Completion			50 %			Acceptable							
121/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												
	III	UT	FIN	Weld Completion			50 %			Acceptable							
122/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
					OM115												

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
122/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
123/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
124/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
125/90654/1/CWTPWT001		**1**	**22-10-2024**	**31**	**OM603**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
127/90654/1/CWTPWT001		**1**	**28-10-2024**	**30**	**OM612**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
129/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
131/90654/1/CWTPWT001		**1**	**28-10-2024**	**30**	**OM612**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
132/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
133/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
134/90654/1/CWTPWT001		**1**	**30-10-2024**	**29**	**OM617**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
134/90654/1/CWTPWT001		**1**	**30-10-2024**	**29**	**OM617**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
135/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
136/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
137/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
138/90654/1/CWTPWT001		**1**	**29-10-2024**	**28**	**OM602**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
139/90654/1/CWTPWT001		**1**	**29-10-2024**	**28**	**OM602**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
140/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
141/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
142/90654/1/CWTPWT001		**1**	**29-10-2024**	**24**	**OM616**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
143/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
144/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15 OM115**		**PL**	**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
144/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							
145/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							
146/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,239 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							
147/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**247,00 mm**	**10,00 mm**	**1/2V**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							
148/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							
150/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							
152/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							
155/90654/1/CWTPWT001		**1**	**30-01-2025**	**44**	**OM15**		**PL**		**150,00 mm**	**15,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-02-2025**
					OM115													
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90654**			
		Prefabrication	**6,16 m**	**36 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,16 m**	**36 Nr. Welds**
		Accepted	**6,16 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
67/90655/1/CWTPWT001		**2**	**30-01-2025**	**30**	**OM15**		**PL**	**2.220,00 mm**	**25,00 mm**	**1/2V**	**3,862 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2025**
					OM115											
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002706		Acceptable				20-02-2025		
68/90655/1/CWTPWT001		**2**	**13-09-2024**	**7-8**	**OM310**		**PL**	**2.220,00 mm**	**25,00 mm**	**1/2V**	**3,860 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**06-11-2024**
					OM602											
					OM317	**Repair done**										
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	MM	100 %	002353		Repair			0,240 m	19-09-2024		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 04	ROM	100 %	002440		Acceptable				06-11-2024		

Totals per DWG	**90655**	**Prefabrication**	**0,00 m** **0 Nr. Welds**
		Erection	**7,72 m** **2 Nr. Welds**
		Offshore	**0,00 m** **0 Nr. Welds**
		Performed	**7,72 m** **2 Nr. Welds**
		Accepted	**7,72 m** **2 Nr. Welds**
		Repaired	**0,24 m** **1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
37/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM15**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**0,506 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002488		Acceptable				27-11-2024		
38/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM15**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002489		Acceptable				27-11-2024		
39/90656/1/CWTPWT001	**2**	**19-11-2024**	**10**	**OM15**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**2,333 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002487		Acceptable				27-11-2024		
40/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM15**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**0,200 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002490		Acceptable				27-11-2024		
41/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM15**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**1,523 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002491		Acceptable				27-11-2024		
42/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM15**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**0,506 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002492		Acceptable				27-11-2024		
43/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM115**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**1,017 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002493		Acceptable				27-11-2024		
44/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM115**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**2,333 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002494		Acceptable				27-11-2024		
45/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM115**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**0,200 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002495		Acceptable				27-11-2024		
46/90656/1/CWTPWT001	**2**	**19-11-2024**	**9**	**OM115**			**PL**	**1.517,80 mm**	**25,00 mm**	**1/2V**	**1,524 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**27-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002496		Acceptable				27-11-2024		
67/90656/1/CWTPWT001	**2**	**01-02-2025**	**45**	**OM15**			**PL**	**1.517,80 mm**	**12,00 mm**	**1/2V**	**1,915 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002705		Acceptable				20-02-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
67/90656/1/CWTPWT001	**2**	**01-02-2025**	**45**	**OM15**		**PL**	**1.517,80 mm**	**12,00 mm**	**1/2V**	**1,915 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-02-2025**

Totals per DWG	**90656**	**Prefabrication**	**0,00 m** **0 Nr. Welds**
		Erection	**13,08 m** **11 Nr. Welds**
		Offshore	**0,00 m** **0 Nr. Welds**
		Performed	**13,08 m** **11 Nr. Welds**
		Accepted	**13,08 m** **11 Nr. Welds**
		Repaired	**0,00 m** **0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90664/1/CWTPLP001	**1**	**07-07-2025**	**59**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable					UT Not Applicable		
2/90664/1/CWTPLP001	**1**	**07-07-2025**	**59**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable					UT Not Applicable		
1/90664/1/CWTPLP002	**1**	**07-07-2025**	**59**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable					UT Not Applicable		
2/90664/1/CWTPLP002	**1**	**07-07-2025**	**59**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable							
1/90664/1/CWTPLP003	**1**	**07-07-2025**	**60**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable					UT Not Applicable		
2/90664/1/CWTPLP003	**1**	**07-07-2025**	**60**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable					UT Not Applicable		
1/90664/1/CWTPLP004	**1**	**07-07-2025**	**60**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable					UT Not Applicable		
2/90664/1/CWTPLP004	**1**	**07-07-2025**	**60**	**OM115**		**PL**	**270,00 mm**	**25,00 mm**	**V**	**0,326 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-07-2025**
I	UT	FIN	Weld Completion			100 %			Acceptable					UT Not Applicable		

Totals per DWG	**90664**	**Prefabrication**	**2,64 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,64 m**	**8 Nr. Welds**
		Accepted	**2,64 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90666/1/CWTPLP001		**0**	**28-06-2025**	**96**	**OM61 OM615**			**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,328 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ZF	100 %	002761		Acceptable					30-06-2025		
4/90666/1/CWTPLP001		**0**	**28-06-2025**	**96**	**OM61 OM615**			**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ZF	100 %	002762		Acceptable					30-06-2025		
1/90666/1/CWTPLP002		**0**	**28-06-2025**	**96**	**OM61 OM615**			**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,328 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ZF	100 %	002763		Acceptable					30-06-2025		
4/90666/1/CWTPLP002		**0**	**28-06-2025**	**96**	**OM61 OM615**			**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ZF	100 %	002764		Acceptable					30-06-2025		
1/90666/1/CWTPLP003		**0**	**28-06-2025**	**96**	**OM61 OM615**			**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,328 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ZF	100 %	002765		Acceptable					30-06-2025		
4/90666/1/CWTPLP003		**0**	**28-06-2025**	**96**	**OM61 OM615**			**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	ZF	100 %	002766		Acceptable					30-06-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90666/1/CWTPLP004		**0**	**28-06-2025**	**96**	**OM61 OM615**		**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,328 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	ZF	100 %	002767		Acceptable					30-06-2025		
4/90666/1/CWTPLP004		**0**	**28-06-2025**	**96**	**OM61 OM615**		**PL**	**347,00 mm**	**40,00 mm**	**K**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-06-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0224 03	ZF	100 %	002768		Acceptable					30-06-2025		
3/90666/1/CWTPLP005		**0**	**07-07-2025**	**98**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002783		Acceptable					09-07-2025		
6/90666/1/CWTPLP005		**0**	**07-07-2025**	**98**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002784		Acceptable					09-07-2025		
3/90666/1/CWTPLP006		**0**	**07-07-2025**	**98**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002781		Acceptable					09-07-2025		
6/90666/1/CWTPLP006		**0**	**07-07-2025**	**98**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002782		Acceptable					09-07-2025		
3/90666/1/CWTPLP007		**0**	**07-07-2025**	**99**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002775		Acceptable					09-07-2025		
6/90666/1/CWTPLP007		**0**	**07-07-2025**	**99**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002776		Acceptable					09-07-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90666/1/CWTPLP008		**0**	**07-07-2025**	**99**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002773		Acceptable				09-07-2025		
6/90666/1/CWTPLP008		**0**	**07-07-2025**	**99**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002774		Acceptable				09-07-2025		
2/90666/1/CWTPLP009		**0**	**07-07-2025**	**98**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**K**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002779		Acceptable				09-07-2025		
5/90666/1/CWTPLP009		**0**	**07-07-2025**	**98**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002780		Acceptable				09-07-2025		
2/90666/1/CWTPLP010		**0**	**07-07-2025**	**98**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002777		Acceptable				09-07-2025		
5/90666/1/CWTPLP010		**0**	**07-07-2025**	**98**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002778		Acceptable				09-07-2025		
2/90666/1/CWTPLP011		**0**	**07-07-2025**	**99**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002771		Acceptable				09-07-2025		
5/90666/1/CWTPLP011		**0**	**07-07-2025**	**99**	**OM115**		**PL**		**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002772		Acceptable				09-07-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
2/90666/1/CWTPLP012		**0**	**07-07-2025**	**99**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
I	UT		FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002770		Acceptable					09-07-2025		
5/90666/1/CWTPLP012		**0**	**07-07-2025**	**99**	**OM115**		**PL**	**187,00 mm**	**25,00 mm**	**1/2V**	**0,190 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**09-07-2025**
I	UT		FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002769		Acceptable					09-07-2025		

Totals per DWG	**90666**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,84 m**	**24 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,84 m**	**24 Nr. Welds**
		Accepted	**6,84 m**	**24 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90674/1/CWUHV005	**0**	**01-08-2024**	**369**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	002013		Acceptable					02-08-2024		
5/90674/1/CWUHV005	**0**	**29-07-2024**	**367**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 00	RS	100 %	001909		Acceptable					01-08-2024		
1/90674/1/CWUHV015	**0**	**30-07-2024**	**368**	**AX410**			**PL**	**196,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	002018		Acceptable					02-08-2024		
5/90674/1/CWUHV015	**0**	**30-07-2024**	**368**	**AX410**			**PL**	**196,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	002019		Acceptable					02-08-2024		
9/90674/1/CWUHV015	**0**	**30-07-2024**	**368**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90674/1/CWUHV016	**0**	**01-08-2024**	**369**	**AX410**			**PL**	**196,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	002014		Acceptable					02-08-2024		
5/90674/1/CWUHV016	**0**	**01-08-2024**	**369**	**AX410**			**PL**	**196,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
9/90674/1/CWUHV016	**0**	**01-08-2024**	**369**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90674/1/CWUHV020		**0**	**30-07-2024**	**368**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90674/1/CWUHV020		**0**	**30-07-2024**	**368**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90674/1/CWUHV020		**0**	**30-07-2024**	**368**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	002017		Acceptable					02-08-2024		
10/90674/1/CWUHV020		**0**	**30-07-2024**	**368**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90674/1/CWUHV021		**0**	**29-07-2024**	**371**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90674/1/CWUHV021		**0**	**29-07-2024**	**371**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90674/1/CWUHV021		**0**	**29-07-2024**	**371**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90674/1/CWUHV021		**0**	**29-07-2024**	**371**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90674/1/CWUHV022	**0**	**01-08-2024**	**369**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90674/1/CWUHV022	**0**	**01-08-2024**	**369**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90674/1/CWUHV022	**0**	**01-08-2024**	**369**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90674/1/CWUHV022	**0**	**01-08-2024**	**369**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90674/1/CWUHV023	**0**	**31-07-2024**	**370**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90674/1/CWUHV023	**0**	**31-07-2024**	**370**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90674/1/CWUHV023	**0**	**01-08-2024**	**369**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90674/1/CWUHV023	**0**	**01-08-2024**	**369**	**AX414**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90674**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**6,10 m**	**24 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**6,10 m**	**24 Nr. Welds**
		Accepted	**6,10 m**	**24 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90675/1/CWUHV006		**1**	**31-07-2024**	**370**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	RS	100 %	002012		Acceptable					02-08-2024		
4/90675/1/CWUHV006		**1**	**30-07-2024**	**368**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90675/1/CWUHV006		**1**	**30-07-2024**	**368**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90675/1/CWUHV007		**1**	**30-07-2024**	**368**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90675/1/CWUHV007		**1**	**30-07-2024**	**368**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90675/1/CWUHV009		**1**	**31-07-2024**	**370**	**AX410**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	100 %	002020		Acceptable					02-08-2024		
5/90675/1/CWUHV009		**1**	**30-07-2024**	**368**	**AX414**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	RS	50 %	002016		Acceptable					02-08-2024		
7/90675/1/CWUHV009		**1**	**30-07-2024**	**368**	**AX414**			**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**31-07-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90675/1/CWUHV010		**1**	**30-07-2024**	**368**	**AX410**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**02-08-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	RS	100 %	002015		Acceptable				02-08-2024		
5/90675/1/CWUHV010		**1**	**01-08-2024**	**369**	**AX410**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						
7/90675/1/CWUHV010		**1**	**01-08-2024**	**369**	**AX410**		**PL**	**250,00 mm**	**15,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-08-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						
1/90675/1/CWUHV026		**1**	**16-09-2024**	**423**	**AX427** **AX416**		**PIPE**	**1.066,80 mm**	**20,00 mm**	**1/2V**	**2,058 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**01-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90675**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**4,70 m**	**12 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,70 m**	**12 Nr. Welds**
		Accepted	**4,70 m**	**12 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90686/1/CWLEN001	**0**	**05-09-2024**	**417**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90686/1/CWLEN001	**0**	**05-09-2024**	**417**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90686/1/CWLEN001	**0**	**05-09-2024**	**417**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90686/1/CWLEN002	**0**	**05-09-2024**	**417**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90686/1/CWLEN002	**0**	**05-09-2024**	**417**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90686/1/CWLEN002	**0**	**05-09-2024**	**417**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90686/1/CWLEN003	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90686/1/CWLEN003	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90686/1/CWLEN003	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90686/1/CWLEN003	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90686/1/CWLEN004	**0**	**04-09-2024**	**415**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90686/1/CWLEN004	**0**	**04-09-2024**	**415**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90686/1/CWLEN004	**0**	**04-09-2024**	**415**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90686/1/CWLEN004	**0**	**04-09-2024**	**415**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90686/1/CWLEN005	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90686/1/CWLEN005	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90686/1/CWLEN005	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90686/1/CWLEN005	**0**	**05-09-2024**	**416**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90686/1/CWLEN006		**0**	**04-09-2024**	**415**	**AX413**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable							
3/90686/1/CWLEN006		**0**	**04-09-2024**	**415**	**AX413**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable							
4/90686/1/CWLEN006		**0**	**04-09-2024**	**415**	**AX413**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable							
6/90686/1/CWLEN006		**0**	**04-09-2024**	**415**	**AX413**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III		UT	FIN	Weld Completion			50 %			Acceptable							
1/90686/1/CWLEN009		**0**	**03-09-2024**	**414**	**AX413**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	002294		Acceptable					09-09-2024		
3/90686/1/CWLEN009		**0**	**03-09-2024**	**414**	**AX413**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	50 %	002295		Acceptable					09-09-2024		
4/90686/1/CWLEN009		**0**	**03-09-2024**	**414**	**AX413**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
I		UT	FIN	Weld Completion	IDL-QCI-UT 0214 02	MM	100 %	002297		Acceptable					09-09-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90686/1/CWLEN010		**0**	**03-09-2024**	**414**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	002296		Acceptable				09-09-2024		
3/90686/1/CWLEN010		**0**	**03-09-2024**	**414**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	50 %	002298		Acceptable				09-09-2024		
4/90686/1/CWLEN010		**0**	**03-09-2024**	**414**	**AX413**		**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**09-09-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	MM	100 %	002299		Acceptable				09-09-2024		

Totals per DWG	**90686**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**3,36 m**	**28 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,36 m**	**28 Nr. Welds**
		Accepted	**3,36 m**	**28 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90687/1/CWUEIA001		**0**	**23-08-2024**	**392**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90687/1/CWUEIA001		**0**	**23-08-2024**	**392**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90687/1/CWUEIA001		**0**	**23-08-2024**	**392**	**AX90**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-08-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90687/1/CWUEIA002		**0**	**07-08-2024**	**375**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	100 %	002212		Acceptable					20-08-2024		
4/90687/1/CWUEIA002		**0**	**07-08-2024**	**375**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	100 %	002213		Acceptable					20-08-2024		
1/90687/1/CWUEIA003		**0**	**06-08-2024**	**373**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	100 %	002222		Acceptable					20-08-2024		
4/90687/1/CWUEIA003		**0**	**06-08-2024**	**373**	**AX410**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	100 %	002223		Acceptable					20-08-2024		

Totals per DWG	**90687**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**1,56 m**	**7 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,56 m**	**7 Nr. Welds**
		Accepted	**1,56 m**	**7 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90689/1/CWUETE008	**0**	**07-08-2024**	**374**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002214		Acceptable				20-08-2024		
3/90689/1/CWUETE008	**0**	**07-08-2024**	**374**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002215		Acceptable				20-08-2024		
4/90689/1/CWUETE008	**0**	**07-08-2024**	**374**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002216		Acceptable				20-08-2024		
6/90689/1/CWUETE008	**0**	**07-08-2024**	**374**	**AX414**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002217		Acceptable				20-08-2024		
7/90689/1/CWUETE008	**0**	**07-08-2024**	**379**	**AX414**			**HEA**	**340,00 mm**	**9,50 mm**	**V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002256		Acceptable				26-08-2024		
1/90689/1/CWUETE009	**0**	**05-08-2024**	**372**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002232		Acceptable				20-08-2024		
3/90689/1/CWUETE009	**0**	**05-08-2024**	**372**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002233		Acceptable				20-08-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M	Material / Techn. Weld.	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90689/1/CWUETE010		**0**	**05-08-2024**	**372**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002234		Acceptable					20-08-2024		
3/90689/1/CWUETE010		**0**	**05-08-2024**	**372**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002235		Acceptable					20-08-2024		
1/90689/1/CWUETE011		**0**	**06-08-2024**	**373**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002224		Acceptable					20-08-2024		
3/90689/1/CWUETE011		**0**	**06-08-2024**	**373**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002229		Acceptable					20-08-2024		
1/90689/1/CWUETE012		**0**	**06-08-2024**	**373**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002230		Acceptable					20-08-2024		
3/90689/1/CWUETE012		**0**	**06-08-2024**	**373**	**AX414**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002231		Acceptable					20-08-2024		
1/90689/1/CWUETE013		**0**	**06-08-2024**	**373**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002225		Acceptable					20-08-2024		
3/90689/1/CWUETE013		**0**	**06-08-2024**	**373**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002226		Acceptable					20-08-2024		
4/90689/1/CWUETE013		**0**	**06-08-2024**	**373**	**AX427**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
III	UT		FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002227		Acceptable					20-08-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90689/1/CWUETE023		**0**	**07-08-2024**	**374**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002218		Acceptable					20-08-2024		
3/90689/1/CWUETE023		**0**	**07-08-2024**	**374**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002219		Acceptable					20-08-2024		
4/90689/1/CWUETE023		**0**	**07-08-2024**	**374**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002220		Acceptable					20-08-2024		
6/90689/1/CWUETE023		**0**	**07-08-2024**	**374**	**AX411**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	50 %	002221		Acceptable					20-08-2024		
7/90689/1/CWUETE023		**0**	**07-08-2024**	**379**	**AX411**			**HEA**	**340,00 mm**	**9,50 mm**	**V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002257		Acceptable					26-08-2024		
8/90689/1/CWUETE023		**0**	**07-08-2024**	**379**	**AX411**			**HEA**	**340,00 mm**	**9,50 mm**	**V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-08-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 02	BLU	50 %	002258		Acceptable					26-08-2024		
1/90689/1/CWUETE038		**0**	**06-08-2024**	**373**	**AX427**			**IPE**	**240,00 mm**	**9,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**20-08-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 03	BLU	100 %	002228		Acceptable					20-08-2024		

Totals per DWG	**90689**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**5,28 m**	**23 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,28 m**	**23 Nr. Welds**
		Accepted	**5,28 m**	**23 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90692/1/CWUHV026		**1**	**26-07-2024**	**1**	**SS06**		**PIPE**	**1.066,20 mm**	**20,00 mm**	**X**	**0,225 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**29-08-2024**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 03	TN	50 %	002276		Acceptable					29-08-2024		

Totals per DWG	**90692**	**Prefabrication**	**0,23 m**	**1 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,23 m**	**1 Nr. Welds**
		Accepted	**0,23 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90731/1/CWUES003	**0**	**29-10-2024**	**466**	**AX413**		**IPE**	**240,00 mm**	**7,80 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**14-11-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90731**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,12 m**	**1 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,12 m**	**1 Nr. Welds**
		Accepted	**0,12 m**	**1 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90741/1/CWTPW100	**0**	**11-02-2025**	**52**	**OM607**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-02-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90741/1/CWTPW100	**0**	**11-02-2025**	**52**	**OM607**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**15-02-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90741/1/CWTPW113	**0**	**11-02-2025**	**55**	**OM607**		**PL**	**135,30 mm**	**10,00 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-02-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90741/1/CWTPW114	**0**	**11-02-2025**	**56**	**OM607**		**PL**	**135,30 mm**	**10,00 mm**	**1/2V**	**0,120 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**17-02-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90741**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,40 m**	**4 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,40 m**	**4 Nr. Welds**
		Accepted	**0,40 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90742/1/CWTPW107		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	BLU	50 %	002443		Acceptable				04-11-2024			
3/90742/1/CWTPW107		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90742/1/CWTPW107		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90742/1/CWTPW107		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
1/90742/1/CWTPW108		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90742/1/CWTPW108		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90742/1/CWTPW108		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90742/1/CWTPW108		**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90742/1/CWTPW109	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90742/1/CWTPW109	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90742/1/CWTPW109	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90742/1/CWTPW109	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90742/1/CWTPW110	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90742/1/CWTPW110	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90742/1/CWTPW110	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90742/1/CWTPW110	**0**	**28-10-2024**	**13**	**GX14**			**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**04-11-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90742**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**1,28 m**	**16 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,28 m**	**16 Nr. Welds**
		Accepted	**1,28 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90743/1/CWTPW104	**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90743/1/CWTPW104	**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
4/90743/1/CWTPW104	**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90743/1/CWTPW104	**0**	**28-10-2024**	**13**	**GX14**		**C**	**220,00 mm**	**12,50 mm**	**1/2V**	**0,080 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90743/1/CWTPW105	**0**	**28-10-2024**	**13**	**GX14**		**PL**	**120,00 mm**	**10,00 mm**	**1/2V**	**0,165 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90743/1/CWTPW105	**0**	**28-10-2024**	**13**	**GX14**		**PL**	**120,00 mm**	**10,00 mm**	**1/2V**	**0,165 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**30-10-2024**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90743**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**0,66 m**	**6 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,66 m**	**6 Nr. Welds**
		Accepted	**0,66 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cons	Accept. Date
1/90753/1/CWTPSG001		**0**	**16-10-2024**	**2**	**SS06**			**PIPE**	**660,00 mm**	**20,00 mm**	**X**	**0,758 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**25-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	QN	100 %	002407		Acceptable				25-10-2024			
2/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**406,40 mm**	**20,62 mm**	**V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**15-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	RS	100 %	002461		Acceptable				15-11-2024			
17/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PL**	**406,40 mm**	**25,00 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002462		Acceptable				15-11-2024			
18/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**406,40 mm**	**20,62 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002463		Acceptable				15-11-2024			
19/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PL**	**190,70 mm**	**25,00 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002464		Acceptable				15-11-2024			
20/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PL**	**190,70 mm**	**25,00 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
21/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**406,40 mm**	**20,62 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002465		Acceptable				15-11-2024			
22/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**406,40 mm**	**20,62 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
23/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**406,40 mm**	**20,62 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002466		Acceptable				15-11-2024			
24/90753/1/CWTPSG001		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**406,40 mm**	**20,62 mm**	**1/2V**	**0,450 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90753**			
		Prefabrication	**5,64 m**	**10 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,64 m**	**10 Nr. Welds**
		Accepted	**5,64 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90754/1/CWTPSG002		**0**	**16-10-2024**	**2**	**SS06**		**PIPE**	**660,00 mm**	**20,00 mm**	**X**	**1,450 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**25-10-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	QN	100 %	002408		Acceptable				25-10-2024			
2/90754/1/CWTPSG002		**0**	**15-11-2024**	**46**	**GX14**		**PIPE**	**680,00 mm**	**10,00 mm**	**X**	**0,200 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**21-11-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	ROM	50 %	002481		Acceptable				21-11-2024			
1/90754/1/CWTPSG003		**0**	**16-10-2024**	**2**	**SS06**		**PIPE**	**660,00 mm**	**30,00 mm**	**X**	**1,450 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**25-10-2024**
	I	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	QN	100 %	002409		Acceptable				25-10-2024			
2/90754/1/CWTPSG003		**0**	**22-11-2024**	**47**	**GX14**		**PIPE**	**680,00 mm**	**10,00 mm**	**X**	**0,200 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**26-11-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0214 03	RS	50 %	002485		Acceptable				26-11-2024			

Totals per DWG	**90754**			
		Prefabrication	**3,30 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,30 m**	**4 Nr. Welds**
		Accepted	**3,30 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90755/1/CWTPSG004		**0**	**15-10-2024**	**3**	**SS06**			**PIPE**	**660,00 mm**	**20,00 mm**	**X**	**0,761 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**25-10-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	QN	100 %	002406		Acceptable				25-10-2024			
16/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
17/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002467		Acceptable				15-11-2024			
18/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
19/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002468		Acceptable				15-11-2024			
20/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
21/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
22/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
23/90755/1/CWTPSG004		**0**	**12-11-2024**	**44**	**GX08**			**PIPE**	**660,00 mm**	**20,00 mm**	**1/2V**	**0,355 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**15-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	RS	50 %	002469		Acceptable				15-11-2024			

Totals per DWG	**90755**	**Prefabrication**	**3,64 m**	**9 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,64 m**	**9 Nr. Welds**
		Accepted	**3,64 m**	**9 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90759/1/CWTPSG002		**0**	**20-11-2024**	**14**	**GX14**			**PIPE**	**660,00 mm**	**20,00 mm**	**V**	**2,073 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**22-11-2024**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04		ROM	100 %	002480		Acceptable				22-11-2024			
2/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		ROM	50 %	002724		Acceptable				20-03-2025			
3/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		ROM	50 %	002725		Acceptable				20-03-2025			
4/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		ROM	50 %	002726		Acceptable				20-03-2025			
5/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		ROM	50 %	002727		Acceptable				20-03-2025			
6/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		ROM	50 %	002728		Acceptable				20-03-2025			
7/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		ROM	50 %	002729		Acceptable				20-03-2025			
8/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02		ROM	50 %	002730		Acceptable				20-03-2025			
9/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02		ROM	50 %	002731		Acceptable				20-03-2025			
10/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02		ROM	50 %	002732		Acceptable				20-03-2025			
11/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02		ROM	50 %	002733		Acceptable				20-03-2025			
12/90759/1/CWTPSG002		**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
12/90759/1/CWTPSG002	**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002734		Acceptable				20-03-2025		
13/90759/1/CWTPSG002	**0**	**11-03-2025**	**60**	**OM115**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002735		Acceptable				20-03-2025		
1/90759/1/CWTPSG005	**0**	**11-03-2025**	**60**	**OM115**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002712		Acceptable				14-03-2025		
1/90759/1/CWTPSG009	**0**	**11-03-2025**	**60**	**OM115**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002713		Acceptable				14-03-2025		
1/90759/1/CWTPSG010	**0**	**11-03-2025**	**60**	**OM115**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002714		Acceptable				14-03-2025		
1/90759/1/CWTPSG011	**0**	**11-03-2025**	**60**	**OM115**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002715		Acceptable				14-03-2025		
1/90759/1/CWTPSG012	**0**	**11-03-2025**	**60**	**OM115**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002716		Acceptable				14-03-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90759/1/CWTPSG013		**0**	**11-03-2025**	**60**	**OM115**		**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT		FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002717		Acceptable					14-03-2025		

Totals per DWG	**90759**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**9,03 m**	**19 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**9,03 m**	**19 Nr. Welds**
		Accepted	**9,03 m**	**19 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90760/1/CWTPSG003		**0**	**22-11-2024**	**15**	**GX14**			**PIPE**	**660,00 mm**	**30,00 mm**	**V**	**2,113 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**26-11-2024**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	RS	100 %	002484		Acceptable				26-11-2024			
2/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002736		Acceptable				20-03-2025			
3/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002737		Acceptable				20-03-2025			
4/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002738		Acceptable				20-03-2025			
5/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002739		Acceptable				20-03-2025			
6/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002740		Acceptable				20-03-2025			
7/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002741		Acceptable				20-03-2025			
8/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002742		Acceptable				20-03-2025			
9/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002743		Acceptable				20-03-2025			
10/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002744		Acceptable				20-03-2025			
11/90760/1/CWTPSG003		**0**	**11-03-2025**	**60**	**OM61**			**PIPE**	**660,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002745		Acceptable				20-03-2025			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90760/1/CWTPSG006	**0**	**11-03-2025**	**60**	**OM61**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002718		Acceptable				14-03-2025		
12/90760/1/CWTPSG006	**0**	**11-03-2025**	**60**	**OM61**			**PL**	**77,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002746		Acceptable				20-03-2025		
13/90760/1/CWTPSG006	**0**	**11-03-2025**	**60**	**OM61**			**PL**	**77,00 mm**	**30,00 mm**	**1/2V**	**0,370 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**20-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002747		Acceptable				20-03-2025		
1/90760/1/CWTPSG014	**0**	**11-03-2025**	**60**	**OM61**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,003 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002719		Acceptable				14-03-2025		
1/90760/1/CWTPSG015	**0**	**11-03-2025**	**60**	**OM61**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002720		Acceptable				14-03-2025		
1/90760/1/CWTPSG016	**0**	**11-03-2025**	**60**	**OM61**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002721		Acceptable				14-03-2025		
1/90760/1/CWTPSG017	**0**	**11-03-2025**	**60**	**OM61**			**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	100 %	002722		Acceptable				14-03-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90760/1/CWTPSG018		**0**	**11-03-2025**	**60**	**OM61**		**PL**	**77,00 mm**	**25,00 mm**	**K**	**0,420 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-03-2025**
I	UT		FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	100 %	002723		Acceptable					14-03-2025		

Totals per DWG	**90760**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**8,65 m**	**19 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**8,65 m**	**19 Nr. Welds**
		Accepted	**8,65 m**	**19 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
1/90762/1/CWCF001		**1**	**17-10-2024**	**21**	**RM84**			**PIPE**	**323,90 mm**	**28,58 mm**	**V**	**1,017 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-10-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	MM	50 %	002397		Acceptable				19-10-2024			
2/90762/1/CWCF001		**1**	**25-10-2024**	**22**	**RM85**			**PIPE**	**323,90 mm**	**28,58 mm**	**V**	**1,017 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**26-10-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	MM	50 %	002424		Acceptable				26-10-2024			
3/90762/1/CWCF001		**1**	**04-11-2024**	**23**	**RM83** **AX 398**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**06-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002434		Acceptable				06-11-2024			
4/90762/1/CWCF001		**1**	**04-11-2024**	**23**	**RM90** **RM82** **AX 398**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**06-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002435		Acceptable				06-11-2024			
5/90762/1/CWCF001		**1**	**02-12-2024**	**29**	**RM88**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002498		Acceptable				03-12-2024			
6/90762/1/CWCF001		**1**	**04-11-2024**	**23**	**RM83** **AX 398**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**06-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002436		Acceptable				06-11-2024			
7/90762/1/CWCF001		**1**	**13-01-2025**	**42**	**RM85** **RM88**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002533		Acceptable				15-01-2025			
8/90762/1/CWCF001		**1**	**13-01-2025**	**42**	**RM85** **RM88**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**15-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002534		Acceptable				15-01-2025			
10/90762/1/CWCF001		**1**	**02-12-2024**	**29**	**RM81**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002499		Acceptable				03-12-2024			
11/90762/1/CWCF001		**1**	**18-11-2024**	**27**	**RM81**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002470		Acceptable				20-11-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cont. / NOTE	Accept. Date
11/90762/1/CWCF001		**1**	**18-11-2024**	**27**	**RM81**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
		deleted for revision drawing																	
12/90762/1/CWCF001		**1**	**18-11-2024**	**27**	**RM81**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		50 %	002471		Acceptable					20-11-2024		
		deleted for revision drawing																	
13/90762/1/CWCF001		**1**	**19-11-2024**	**28**	**RM91**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-11-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
		deleted for revision drawing																	
14/90762/1/CWCF001		**1**	**19-11-2024**	**28**	**RM91**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-11-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
		deleted for revision drawing																	
23/90762/1/CWCF001		**1**	**11-12-2024**	**35**	**RM90**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,921 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
24/90762/1/CWCF001		**1**	**11-12-2024**	**35**	**RM90**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,921 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
25/90762/1/CWCF001		**1**	**11-12-2024**	**35**	**RM90**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,929 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
26/90762/1/CWCF001		**1**	**11-12-2024**	**35**	**RM90**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,929 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**11-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
27/90762/1/CWCF001		**1**	**06-12-2024**	**32**	**RM87**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,888 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
28/90762/1/CWCF001		**1**	**06-12-2024**	**32**	**RM87**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,888 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
29/90762/1/CWCF001		**1**	**10-12-2024**	**34**	**RM90**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,881 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-12-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld.	Type Cont. / NOTE	Accept. Date
29/90762/1/CWCF001		**1**	**10-12-2024**	**34**	**RM90**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,881 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
30/90762/1/CWCF001		**1**	**10-12-2024**	**34**	**RM90**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,881 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**10-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
31/90762/1/CWCF001		**1**	**13-12-2024**	**37**	**RM82**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		50 %	002506		Acceptable				17-12-2024			
32/90762/1/CWCF001		**1**	**13-12-2024**	**37**	**RM82**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		50 %	002507		Acceptable				17-12-2024			
33/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM82**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
34/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM82**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
35/90762/1/CWCF001		**1**	**18-12-2024**	**39**	**RM87** **RM82**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,884 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
36/90762/1/CWCF001		**1**	**18-12-2024**	**39**	**RM87** **RM82**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**0,884 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
37/90762/1/CWCF001		**1**	**23-01-2025**	**45**	**RM94**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**1,180 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		50 %	002581		Acceptable				24-01-2025			
38/90762/1/CWCF001		**1**	**23-01-2025**	**45**	**RM94**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**1,180 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		50 %	002582		Acceptable				24-01-2025			
39/90762/1/CWCF001		**1**	**19-12-2024**	**40**	**RM82**			**PIPE**		**219,10 mm**	**18,26 mm**	**1/2V**	**1,180 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
39/90762/1/CWCF001		**1**	**19-12-2024**	**40**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,180 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
40/90762/1/CWCF001		**1**	**19-12-2024**	**40**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,180 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
41/90762/1/CWCF001		**1**	**13-12-2024**	**37**	**RM85**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002508		Acceptable					17-12-2024		
42/90762/1/CWCF001		**1**	**13-12-2024**	**37**	**RM85**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002509		Acceptable					17-12-2024		
43/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM81 RM85**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
44/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM81 RM85**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**16-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
45/90762/1/CWCF001		**1**	**19-12-2024**	**40**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,013 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
46/90762/1/CWCF001		**1**	**19-12-2024**	**40**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,013 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
47/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM81 RM85**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002516		Acceptable					17-12-2024		
48/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM90 RM87**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002518		Acceptable					17-12-2024		
49/90762/1/CWCF001		**1**	**27-01-2025**	**47**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,085 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
49/90762/1/CWCF001		**1**	**27-01-2025**	**47**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,085 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
50/90762/1/CWCF001		**1**	**19-12-2024**	**40**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,085 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
51/90762/1/CWCF001		**1**	**06-12-2024**	**32**	**RM90**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,085 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
52/90762/1/CWCF001		**1**	**06-12-2024**	**32**	**RM82**			**PIPE**	**219,10 mm**	**18,26 mm**	**1/2V**	**1,085 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002513		Acceptable					17-12-2024		
53/90762/1/CWCF001		**1**	**12-12-2024**	**36**	**RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002514		Acceptable					17-12-2024		
54/90762/1/CWCF001		**1**	**12-12-2024**	**36**	**RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002515		Acceptable					17-12-2024		
55/90762/1/CWCF001		**1**	**15-10-2024**	**19**	**RM81**			**PIPE**	**323,90 mm**	**28,58 mm**	**V**	**1,017 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**16-10-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	MM	50 %	002394		Acceptable					16-10-2024		
56/90762/1/CWCF001		**1**	**06-11-2024**	**24**	**RM81 AX 398**			**PIPE**	**406,40 mm**	**36,53 mm**	**V**	**1,276 m**	**P**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**08-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	ROM	50 %	002444		Acceptable					08-11-2024		
151/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002517		Acceptable					17-12-2024		
152/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
153/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
154/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
154/90762/1/CWCF001		**1**	**16-12-2024**	**38**	**RM90**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
III	UT	FIN	Weld Completion				50 %			Acceptable							
161/90762/1/CWCF001		**1**	**19-05-2025**	**138**	**AX84**		**PIPE**	**323,90 mm**	**12,00 mm**	**1/2V**	**1,017 m**	**P**	**C.S.**	**1A**	**GTAW+FCAW**	**BW**	**27-05-2025**
					AX416												
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	ROM	50 %	002758		Acceptable					27-05-2025		
162/90762/1/CWCF001		**1**	**16-01-2024**	**5-9**	**OS**	**Welding + Repair done**	**PIPE**	**323,90 mm**	**12,00 mm**	**X**	**0,464 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	MTM	50 %	002586		Acceptable					27-01-2025		
	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90762**	**Prefabrication**	**48,88 m**	**53 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**48,88 m**	**53 Nr. Welds**
		Accepted	**48,88 m**	**53 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
60/90764/1/CWCF001		**1**	**02-12-2024**	**29**	**RM81**			**PL**	**344,50 mm**	**20,00 mm**	**1/2V**	**1,082 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-12-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	ROM	50 %	002500		Acceptable					03-12-2024		
65/90764/1/CWCF001		**1**	**02-12-2024**	**29**	**RM85**			**PL**	**344,50 mm**	**20,00 mm**	**1/2V**	**1,082 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-12-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	ROM	50 %	002501		Acceptable					03-12-2024		
69/90764/1/CWCF001		**1**	**27-01-2025**	**47**	**RM81**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,733 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
70/90764/1/CWCF001		**1**	**27-01-2025**	**47**	**RM94**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,733 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
155/90764/1/CWCF001		**1**	**27-01-2025**	**46**	**RM94**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,729 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-01-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
156/90764/1/CWCF001		**1**	**27-01-2025**	**46**	**RM94**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-01-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
157/90764/1/CWCF001		**1**	**27-01-2025**	**46**	**RM94**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,729 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-01-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
158/90764/1/CWCF001		**1**	**27-01-2025**	**46**	**RM94**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**27-01-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
159/90764/1/CWCF001		**1**	**19-12-2024**	**40**	**RM96** **RM90**			**PIPE**	**406,40 mm**	**31,00 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0224 03	ROM	50 %	002519		Acceptable					24-12-2024		
160/90764/1/CWCF001		**1**	**19-12-2024**	**40**	**RM96** **RM90**			**PIPE**	**406,40 mm**	**31,00 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0224 03	ROM	50 %	002520		Acceptable					24-12-2024		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
160/90764/1/CWCF001	**1**	**19-12-2024**	**40**	**RM96**		**PIPE**	**406,40 mm**	**31,00 mm**	**1/2V**	**1,276 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**24-12-2024**
				RM90											

Totals per DWG	**90764**	**Prefabrication**	**9,06 m** **10 Nr. Welds**
		Erection	**0,00 m** **0 Nr. Welds**
		Offshore	**0,00 m** **0 Nr. Welds**
		Performed	**9,06 m** **10 Nr. Welds**
		Accepted	**9,06 m** **10 Nr. Welds**
		Repaired	**0,00 m** **0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
111/90765/1/CWCF001		**02**	**18-11-2024**	**27**	**RM96**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002472		Acceptable				20-11-2024			
		deleted for revision drawing																
112/90765/1/CWCF001		**02**	**18-11-2024**	**27**	**RM96**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002473		Acceptable				20-11-2024			
		deleted for revision drawing																
113/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM114** **RM82**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002570		Acceptable				23-01-2025			
114/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM88** **RM82**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002571		Acceptable				23-01-2025			
115/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM85** **RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002572		Acceptable				23-01-2025			
116/90765/1/CWCF001		**02**	**19-11-2024**	**28**	**RM82**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
117/90765/1/CWCF001		**02**	**19-11-2024**	**28**	**RM82**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-11-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
118/90765/1/CWCF001		**02**	**13-12-2024**	**37**	**RM87**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002510		Acceptable				17-12-2024			
119/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM85** **RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002573		Acceptable				23-01-2025			
120/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM85** **RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
120/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM85 RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002574		Acceptable				23-01-2025			
121/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM81 RM84**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002575		Acceptable				23-01-2025			
122/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM85 RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002576		Acceptable				23-01-2025			
123/90765/1/CWCF001		**02**	**05-12-2024**	**33**	**RM82**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
124/90765/1/CWCF001		**02**	**06-12-2024**	**32**	**RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
125/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM89 RM82**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002577		Acceptable				23-01-2025			
126/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM81 RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002578		Acceptable				23-01-2025			
127/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM81 RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002579		Acceptable				23-01-2025			
128/90765/1/CWCF001		**02**	**22-01-2025**	**44**	**RM81 RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**23-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	50 %	002580		Acceptable				23-01-2025			
129/90765/1/CWCF001		**02**	**18-11-2024**	**27**	**RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,534 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002474		Acceptable				20-11-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
129/90765/1/CWCF001		**02**	**18-11-2024**	**27**	**RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,534 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002475		Acceptable				20-11-2024			
130/90765/1/CWCF001		**02**	**18-11-2024**	**27**	**RM116**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,534 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002475		Acceptable				20-11-2024			
131/90765/1/CWCF001		**02**	**18-12-2024**	**39**	**RM96**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
132/90765/1/CWCF001		**02**	**07-11-2024**	**25**	**RM88**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,837 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**12-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002454		Acceptable				12-11-2024			
133/90765/1/CWCF001		**02**	**18-12-2024**	**39**	**RM96**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-12-2024**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
134/90765/1/CWCF001		**02**	**07-11-2024**	**25**	**RM88**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,837 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**12-11-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002455		Acceptable				12-11-2024			
137/90765/1/CWCF001		**02**	**20-01-2025**	**43**	**RM115** **RM113**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
138/90765/1/CWCF001		**02**	**20-01-2025**	**43**	**RM88** **RM84**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
139/90765/1/CWCF001		**02**	**20-01-2025**	**43**	**RM85** **RM88**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,541 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
140/90765/1/CWCF001		**02**	**20-01-2025**	**43**	**RM96** **RM81**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,591 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**20-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
141/90765/1/CWCF001		**02**	**13-12-2024**	**37**	**RM85**			**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,534 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002511		Acceptable				17-12-2024			

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
141/90765/1/CWCF001		**02**	**13-12-2024**	**37**	**RM85**		**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,534 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002512		Acceptable				17-12-2024			
142/90765/1/CWCF001		**02**	**13-12-2024**	**37**	**RM85**		**PIPE**	**168,30 mm**	**14,27 mm**	**1/2V**	**0,534 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-12-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002512		Acceptable				17-12-2024			
143/90765/1/CWCF001		**02**	**23-12-2024**	**41**	**RM90**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-01-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002521		Acceptable				07-01-2025			
144/90765/1/CWCF001		**02**	**07-11-2024**	**25**	**RM96**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,837 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**12-11-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002456		Acceptable				12-11-2024			
145/90765/1/CWCF001		**02**	**23-12-2024**	**41**	**RM82**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,702 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-01-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002522		Acceptable				07-01-2025			
146/90765/1/CWCF001		**02**	**07-11-2024**	**25**	**RM96**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,837 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**12-11-2024**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ROM	50 %	002457		Acceptable				12-11-2024			

Totals per DWG	**90765**			
		Prefabrication	**21,58 m**	**34 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**21,58 m**	**34 Nr. Welds**
		Accepted	**21,58 m**	**34 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cont. / NOTE	Accept. Date
71/90766/1/CWCF001		**0**	**27-01-2025**	**47**	**RM81**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,729 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
72/90766/1/CWCF001		**0**	**27-01-2025**	**47**	**RM81**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
73/90766/1/CWCF001		**0**	**27-01-2025**	**47**	**RM85**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,729 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
74/90766/1/CWCF001		**0**	**27-01-2025**	**47**	**RM85**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
75/90766/1/CWCF001		**0**	**23-12-2024**	**41**	**RM84** **RM87**			**PIPE**		**406,40 mm**	**31,00 mm**	**1/2V**	**0,069 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		50 %	002523		Acceptable					07-01-2025		
76/90766/1/CWCF001		**0**	**03-12-2024**	**30**	**RM85**			**PL**		**344,50 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM		50 %	002503		Acceptable					06-12-2024		
80/90766/1/CWCF001		**0**	**23-12-2024**	**41**	**RM84** **RM87**			**PIPE**		**406,40 mm**	**31,00 mm**	**1/2V**	**0,034 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM		50 %	002524		Acceptable					07-01-2025		
81/90766/1/CWCF001		**0**	**03-12-2024**	**30**	**RM81**			**PL**		**344,50 mm**	**20,00 mm**	**1/2V**	**0,040 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-12-2024**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
85/90766/1/CWCF001		**0**	**27-01-2025**	**47**	**RM81**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,733 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
86/90766/1/CWCF001		**0**	**27-01-2025**	**47**	**RM84**			**PIPE**		**219,10 mm**	**23,00 mm**	**1/2V**	**0,733 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure
Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
86/90766/1/CWCF001	**0**	**27-01-2025**	**47**	**RM84**		**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,733 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**

Totals per DWG	**90766**	**Prefabrication**	**5,48 m** **10 Nr. Welds**
		Erection	**0,00 m** **0 Nr. Welds**
		Offshore	**0,00 m** **0 Nr. Welds**
		Performed	**5,48 m** **10 Nr. Welds**
		Accepted	**5,48 m** **10 Nr. Welds**
		Repaired	**0,00 m** **0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
87/90767/1/CWCF001		**1**	**20-01-2025**	**43**	**RM85** **RM88**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,729 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002559		Acceptable				21-01-2025			
88/90767/1/CWCF001		**1**	**20-01-2025**	**43**	**RM85** **RM88**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002560		Acceptable				21-01-2025			
89/90767/1/CWCF001		**1**	**20-01-2025**	**43**	**RM88** **RM90**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,729 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002561		Acceptable				21-01-2025			
90/90767/1/CWCF001		**1**	**20-01-2025**	**43**	**RM117** **RM114**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,708 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**21-01-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ROM	50 %	002558		Acceptable				21-01-2025			
91/90767/1/CWCF001		**1**	**27-01-2025**	**47**	**RM81**			**PIPE**	**406,40 mm**	**31,00 mm**	**1/2V**	**0,069 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
92/90767/1/CWCF001		**1**	**05-12-2024**	**31**	**RM82**			**PL**	**344,50 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	MM	50 %	002502		Acceptable				06-12-2024			
96/90767/1/CWCF001		**1**	**27-01-2025**	**47**	**RM81**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,745 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
97/90767/1/CWCF001		**1**	**27-01-2025**	**47**	**RM88**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**1,163 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
98/90767/1/CWCF001		**1**	**27-01-2025**	**47**	**RM85**			**PIPE**	**406,40 mm**	**31,00 mm**	**1/2V**	**0,034 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
99/90767/1/CWCF001		**1**	**05-12-2024**	**31**	**RM82**			**PL**	**344,50 mm**	**20,00 mm**	**1/2V**	**1,000 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**09-12-2024**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	TN	50 %	002504		Acceptable				09-12-2024			
103/90767/1/CWCF001		**1**	**27-01-2025**	**47**	**RM94**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,745 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
103/90767/1/CWCF001	**1**	**27-01-2025**	**47**	**RM94**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,745 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
104/90767/1/CWCF001	**1**	**27-01-2025**	**47**	**RM81**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**1,163 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
105/90767/1/CWCF001	**1**	**27-01-2025**	**47**	**RM82**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,733 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
106/90767/1/CWCF001	**1**	**27-01-2025**	**47**	**RM91**			**PIPE**	**219,10 mm**	**23,00 mm**	**1/2V**	**0,733 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**28-01-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90767**	**Prefabrication**	**10,26 m**	**14 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**10,26 m**	**14 Nr. Welds**
		Accepted	**10,26 m**	**14 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90771/1/CWCF002		**0**	**09-01-2025**	**2**	**MCI20**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,889 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-01-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	002566		Acceptable				17-01-2025		
8/90771/1/CWCF002		**0**	**16-01-2025**	**6**	**MCI20**		**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,889 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-01-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	002567		Acceptable				17-01-2025		

Totals per DWG	**90771**	**Prefabrication**	**1,78 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,78 m**	**2 Nr. Welds**
		Accepted	**1,78 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
15/90772/1/CWCF002		**0**	**16-01-2025**	**6**	**MCI20**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,889 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-01-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	002568		Acceptable				17-01-2025		
22/90772/1/CWCF002		**0**	**16-01-2025**	**6**	**MCI20**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,889 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**17-01-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	002569		Acceptable				17-01-2025		

Totals per DWG	**90772**	**Prefabrication**	**1,78 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,78 m**	**2 Nr. Welds**
		Accepted	**1,78 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
4/90773/1/CWTPMD001	III	**0** / UT	**29-11-2024** / FIN	**49** / Weld Completion	**DM22**		**PL** / 50 %	**45,10 mm**	**16,00 mm** /	**1/2V** / Acceptable	**0,048 m**	**P** /	**C.S.**	**2A**	**FCAW** /	**T**	**10-03-2025**
5/90773/1/CWTPMD001	III	**0** / UT	**29-11-2024** / FIN	**49** / Weld Completion	**DM22**		**PL** / 50 %	**45,10 mm**	**16,00 mm** /	**1/2V** / Acceptable	**0,048 m**	**P** /	**C.S.**	**2A**	**FCAW** /	**T**	**10-03-2025**
6/90773/1/CWTPMD001	III	**0** / UT	**29-11-2024** / FIN	**49** / Weld Completion	**DM22**		**PL** / 50 %	**120,00 mm**	**40,00 mm** /	**1/2V** / Acceptable	**0,048 m**	**P** /	**C.S.**	**2A**	**FCAW** /	**T**	**10-03-2025**
7/90773/1/CWTPMD001	III	**0** / UT	**29-11-2024** / FIN	**49** / Weld Completion	**DM22**		**PL** / 50 %	**120,00 mm**	**40,00 mm** /	**1/2V** / Acceptable	**0,048 m**	**P** /	**C.S.**	**2A**	**FCAW** /	**T**	**10-03-2025**
10/90773/1/CWTPMD001	III	**0** / UT	**29-11-2024** / FIN	**49** / Weld Completion	**DM22**		**PL** / 50 %	**80,00 mm**	**30,00 mm** /	**1/2V** / Acceptable	**0,051 m**	**P** /	**C.S.**	**2A**	**FCAW** /	**BW**	**05-03-2025**

Totals per DWG	**90773**			
		Prefabrication	**0,25 m**	**5 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**0,25 m**	**5 Nr. Welds**
		Accepted	**0,25 m**	**5 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90774/1/CWCF003		**1**	**12-02-2025**	**1**	**A08**		**PL**	**508,00 mm**	**55,00 mm**	**1/2V**	**0,797 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90774/1/CWCF003		**1**	**12-02-2025**	**1**	**A08**		**PL**	**508,00 mm**	**55,00 mm**	**1/2V**	**0,797 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90774/1/CWCF003		**1**	**12-02-2025**	**1**	**A08**		**PIPE**	**355,60 mm**	**20,00 mm**	**1/2V**	**1,116 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	002638		Acceptable					14-02-2025		
5/90774/1/CWCF003		**1**	**17-02-2025**	**3**	**A08**		**TQ**	**120,00 mm**	**10,00 mm**	**1/2V**	**0,459 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	002655		Acceptable					19-02-2025		
6/90774/1/CWCF003		**1**	**17-02-2025**	**3**	**A08**		**TQ**	**120,00 mm**	**10,00 mm**	**1/2V**	**0,462 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**19-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	RS	50 %	002656		Acceptable					19-02-2025		
9/90774/1/CWCF003		**1**	**13-01-2025**	**3-7**	**CB**	**Welding + Repair done**	**PIPE**	**355,60 mm**	**20,00 mm**	**X**	**0,181 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**04-02-2025**
					OS	**Welding + Repair done**											
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	MTM	50 %	002587		Repair				0,181 m	27-01-2025		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 04	MTM	50 %	002603		Acceptable					04-02-2025		

Totals per DWG	**90774**			
		Prefabrication	**3,82 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,82 m**	**6 Nr. Welds**
		Accepted	**3,82 m**	**6 Nr. Welds**
		Repaired	**0,18 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90775/1/CWCF004		**1**	**12-02-2025**	**1**	**A08**		**PL**	**508,00 mm**	**55,00 mm**	**1/2V**	**0,797 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
2/90775/1/CWCF004		**1**	**12-02-2025**	**1**	**A08**		**PL**	**508,00 mm**	**55,00 mm**	**1/2V**	**0,797 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**13-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
3/90775/1/CWCF004		**1**	**12-02-2025**	**1**	**A08**		**PIPE**	**355,60 mm**	**20,00 mm**	**1/2V**	**1,027 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	002639		Acceptable					14-02-2025		
5/90775/1/CWCF004		**1**	**17-02-2025**	**3**	**A08**		**TQ**	**120,00 mm**	**10,00 mm**	**1/2V**	**0,459 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90775/1/CWCF004		**1**	**17-02-2025**	**3**	**A08**		**TQ**	**120,00 mm**	**10,00 mm**	**1/2V**	**0,462 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**18-02-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90775/1/CWCF004		**1**	**13-01-2025**	**3-8**	**CB**		**PIPE**	**355,60 mm**	**20,00 mm**	**X**	**0,181 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**04-02-2025**
					OS												
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	MTM	50 %	002588		Acceptable					27-01-2025		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 04	MTM	50 %	002606		Acceptable					04-02-2025		

Totals per DWG	**90775**			
		Prefabrication	**3,73 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,73 m**	**6 Nr. Welds**
		Accepted	**3,73 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90776/1/CWCF005		**1**	**11-02-2025**	**2**	**A08**		**PIPE**	**355,60 mm**	**20,00 mm**	**1/2V**	**1,116 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	002640		Acceptable				14-02-2025		
3/90776/1/CWCF005		**1**	**14-01-2025**	**2**	**CB OS**		**PIPE**	**355,60 mm**	**20,00 mm**	**X**	**0,181 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**27-01-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	MTM	50 %	002591		Acceptable				27-01-2025		

Totals per DWG	**90776**	**Prefabrication**	**1,30 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,30 m**	**2 Nr. Welds**
		Accepted	**1,30 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90777/1/CWCF006		**1**	**11-02-2025**	**2**	**A08**		**PIPE**	**355,60 mm**	**20,00 mm**	**1/2V**	**1,116 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	002641		Acceptable				14-02-2025		
3/90777/1/CWCF006		**1**	**14-01-2025**	**2-7**	**CB**	**Welding + Repair done**	**PIPE**	**355,60 mm**	**20,00 mm**	**X**	**0,181 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**04-02-2025**
					OS	**Welding + Repair done**										
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	MTM	50 %	002592		Repair			0,181 m	27-01-2025		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 04	MTM	50 %	002604		Acceptable				04-02-2025		

Totals per DWG	**90777**	**Prefabrication**	**1,30 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,30 m**	**2 Nr. Welds**
		Accepted	**1,30 m**	**2 Nr. Welds**
		Repaired	**0,18 m**	**1 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90778/1/CWCF007		**1**	**11-02-2025**	**2**	**A08**		**PIPE**	**355,60 mm**	**20,00 mm**	**1/2V**	**1,116 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	002642		Acceptable				14-02-2025		
3/90778/1/CWCF007		**1**	**15-01-2025**	**1-8**	**CB**	**Welding + Repair done**	**PIPE**	**355,60 mm**	**20,00 mm**	**X**	**0,177 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**04-02-2025**
					OS	**Welding + Repair done**											
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	MTM	50 %	002589		Acceptable				27-01-2025		
		UT	R 1 DRI	After Repair	IDL-QCI-UT 0215 04	MTM	50 %	002605		Acceptable				04-02-2025		

Totals per DWG	**90778**	**Prefabrication**	**1,30 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,30 m**	**2 Nr. Welds**
		Accepted	**1,30 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90779/1/CWCF008		**1**	**11-02-2025**	**2**	**A08**		**PIPE**	**355,60 mm**	**20,00 mm**	**1/2V**	**1,116 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**14-02-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	002643		Acceptable				14-02-2025		
3/90779/1/CWCF008		**1**	**15-01-2025**	**1**	**CB**		**PIPE**	**355,60 mm**	**20,00 mm**	**X**	**0,140 m**	**P**	**C.S.**	**1D**	**GMAW+SAW**	**BW**	**27-01-2025**
					OS											
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	MTM	50 %	002590		Acceptable				27-01-2025		

Totals per DWG	**90779**	**Prefabrication**	**1,26 m**	**2 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,26 m**	**2 Nr. Welds**
		Accepted	**1,26 m**	**2 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn / Accept. Date
1/90781/1/CWCF002		**0**	**12-02-2025**	**49**	**OM115**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,938 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **18-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002649		Acceptable				18-02-2025		
2/90781/1/CWCF002		**0**	**12-02-2025**	**49**	**OM115**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,938 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **18-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002650		Acceptable				18-02-2025		
3/90781/1/CWCF002		**0**	**12-02-2025**	**49**	**OM115**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,938 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **18-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002651		Acceptable				18-02-2025		
4/90781/1/CWCF002		**0**	**12-02-2025**	**49**	**OM115**			**PIPE**	**273,10 mm**	**9,30 mm**	**1/2V**	**0,938 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **18-02-2025**
	I	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	ROM	100 %	002652		Acceptable				18-02-2025		
1/90781/1/CWCF003		**0**	**30-04-2025**	**471**	**AX25**			**PIPE**	**355,60 mm**	**27,80 mm**	**1/2V**	**1,208 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **10-05-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ZF	50 %	002754		Acceptable				10-05-2025		
1/90781/1/CWCF004		**0**	**02-05-2025**	**472**	**AX25**			**PIPE**	**355,60 mm**	**27,80 mm**	**1/2V**	**1,208 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **10-05-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ZF	50 %	002753		Acceptable				10-05-2025		
1/90781/1/CWCF005		**0**	**05-05-2025**	**473**	**AX25**			**PIPE**	**355,60 mm**	**27,80 mm**	**1/2V**	**1,208 m**	**M**	**C.S.**	**2A**	**FCAW**	**T** **10-05-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	ZF	50 %	002752		Acceptable				10-05-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90781/1/CWCF006		**0**	**06-05-2025**	**475**	**AX394**		**PIPE**	**355,60 mm**	**27,80 mm**	**1/2V**	**1,208 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-05-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ZF	50 %	002756		Acceptable				10-05-2025		
1/90781/1/CWCF007		**0**	**07-05-2025**	**474**	**AX394**		**PIPE**	**355,60 mm**	**27,80 mm**	**1/2V**	**1,208 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-05-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ZF	50 %	002757		Acceptable				10-05-2025		
1/90781/1/CWCF008		**0**	**08-05-2025**	**476**	**AX394**		**PIPE**	**355,60 mm**	**27,80 mm**	**1/2V**	**1,208 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**10-05-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	ZF	50 %	002755		Acceptable				10-05-2025		

Totals per DWG	**90781**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**11,02 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**11,02 m**	**10 Nr. Welds**
		Accepted	**11,02 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90793/1/CWS001		**0**	**19-07-2025**	**116**	**OM57**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	000249		Acceptable					22-07-2025		
2/90793/1/CWS001		**0**	**19-07-2025**	**116**	**OM57**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	000250		Acceptable					22-07-2025		
3/90793/1/CWS001		**0**	**19-07-2025**	**116**	**OM57**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III	UT		FIN	Weld Completion	IDL-QCI-UT 0222 02	VP	50 %	000251		Acceptable					22-07-2025		
4/90793/1/CWS001		**0**	**19-07-2025**	**116**	**OM57**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-07-2025**
III	UT		FIN	Weld Completion			50 %			Acceptable							
5/90793/1/CWS001		**0**	**28-03-2025**	**10**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT		FIN	Weld Completion			50 %			Acceptable							
6/90793/1/CWS001		**0**	**28-03-2025**	**10**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT		FIN	Weld Completion			50 %			Acceptable							
7/90793/1/CWS001		**0**	**28-03-2025**	**10**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT		FIN	Weld Completion			50 %			Acceptable							
8/90793/1/CWS001		**0**	**28-03-2025**	**10**	**DM07**		**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT		FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.		Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90793/1/CWS002		**0**	**19-07-2025**	**117**	**OM61**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III		UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000246			Acceptable					22-07-2025		
2/90793/1/CWS002		**0**	**19-07-2025**	**117**	**OM61**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III		UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000247			Acceptable					22-07-2025		
3/90793/1/CWS002		**0**	**19-07-2025**	**117**	**OM61**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-07-2025**
III		UT	FIN	Weld Completion				50 %				Acceptable							
4/90793/1/CWS002		**0**	**19-07-2025**	**117**	**OM61**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III		UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000248			Acceptable					22-07-2025		
5/90793/1/CWS002		**0**	**28-03-2025**	**10**	**DM09**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III		UT	FIN	Weld Completion				50 %				Acceptable							
6/90793/1/CWS002		**0**	**28-03-2025**	**10**	**DM09**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III		UT	FIN	Weld Completion				50 %				Acceptable							
7/90793/1/CWS002		**0**	**28-03-2025**	**10**	**DM09**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III		UT	FIN	Weld Completion				50 %				Acceptable							
8/90793/1/CWS002		**0**	**28-03-2025**	**10**	**DM09**			**PIPE**		**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III		UT	FIN	Weld Completion				50 %				Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90793/1/CWS003		**0**	**19-07-2025**	**116**	**OM57**			**PL**	**500,00 mm**	**20,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90793/1/CWS004		**0**	**19-07-2025**	**119**	**OM15**			**PL**	**500,00 mm**	**20,00 mm**	**1/2V**	**0,820 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000241		Acceptable					22-07-2025		
1/90793/1/CWS005		**0**	**19-07-2025**	**118**	**OM115**			**PL**	**500,00 mm**	**20,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000243		Acceptable					22-07-2025		
1/90793/1/CWS006		**0**	**19-07-2025**	**117**	**OM61**			**PL**	**500,00 mm**	**20,00 mm**	**1/2V**	**0,500 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000242		Acceptable					22-07-2025		
1/90793/1/CWS007		**0**	**19-07-2025**	**119**	**OM15**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000252		Acceptable					23-07-2025		
2/90793/1/CWS007		**0**	**19-07-2025**	**119**	**OM15**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000253		Acceptable					23-07-2025		
3/90793/1/CWS007		**0**	**19-07-2025**	**119**	**OM15**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90793/1/CWS007		**0**	**19-07-2025**	**119**	**OM15**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000254		Acceptable					23-07-2025		
5/90793/1/CWS007		**0**	**28-03-2025**	**10**	**DM22**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90793/1/CWS007		**0**	**28-03-2025**	**10**	**DM22**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90793/1/CWS007		**0**	**28-03-2025**	**10**	**DM22**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90793/1/CWS007		**0**	**28-03-2025**	**10**	**DM22**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
8/90793/1/CWS007		**0**	**28-03-2025**	**10**	**DM22**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
1/90793/1/CWS008		**0**	**19-07-2025**	**118**	**OM115**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0222 02	VP	50 %	000244		Acceptable					22-07-2025		
2/90793/1/CWS008		**0**	**19-07-2025**	**118**	**OM115**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**22-07-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0222 02	VP	50 %	000245		Acceptable					22-07-2025		
3/90793/1/CWS008		**0**	**19-07-2025**	**118**	**OM115**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-07-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
4/90793/1/CWS008		**0**	**19-07-2025**	**118**	**OM115**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,400 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**21-07-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
5/90793/1/CWS008		**0**	**28-03-2025**	**10**	**DM25**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
6/90793/1/CWS008		**0**	**28-03-2025**	**10**	**DM25**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
7/90793/1/CWS008		**0**	**28-03-2025**	**10**	**DM25**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
8/90793/1/CWS008		**0**	**28-03-2025**	**10**	**DM25**			**PIPE**	**273,10 mm**	**12,70 mm**	**1/2V**	**0,326 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							

Totals per DWG	**90793**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**14,00 m**	**36 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**14,00 m**	**36 Nr. Welds**
		Accepted	**14,00 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90794/1/CWLWG001	**0**	**26-02-2025**	**54**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
2/90794/1/CWLWG001	**0**	**26-02-2025**	**54**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
3/90794/1/CWLWG001	**0**	**26-02-2025**	**54**	**DM22**			**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **05-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000063		Acceptable				05-03-2025		

Totals per DWG	**90794**	**Prefabrication**	**5,40 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,40 m**	**3 Nr. Welds**
		Accepted	**5,40 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90795/1/CWLWG002	**0**	**26-02-2025**	**54**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**11-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
2/90795/1/CWLWG002	**0**	**26-02-2025**	**54**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**12-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
3/90795/1/CWLWG002	**0**	**26-02-2025**	**54**	**DM25**			**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**12-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000064		Acceptable				12-03-2025		

Totals per DWG	**90795**	**Prefabrication**	**5,40 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,40 m**	**3 Nr. Welds**
		Accepted	**5,40 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90796/1/CWLWG003	**0**	**21-02-2025**	**50**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
2/90796/1/CWLWG003	**0**	**21-02-2025**	**50**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
3/90796/1/CWLWG003	**0**	**21-02-2025**	**50**	**DM22**			**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **05-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000060		Acceptable				05-03-2025		

Totals per DWG	**90796**	**Prefabrication**	**5,40 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,40 m**	**3 Nr. Welds**
		Accepted	**5,40 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90797/1/CWLWG004		**21-02-2025**	**50**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT not applicable	
2/90797/1/CWLWG004		**21-02-2025**	**67**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**08-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000141		Acceptable				08-04-2025		
3/90797/1/CWLWG004		**21-02-2025**	**50**	**DM25**			**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000061		Acceptable				05-03-2025		

Totals per DWG	**90797**	**Prefabrication**	**5,40 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,40 m**	**3 Nr. Welds**
		Accepted	**5,40 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90798/1/CWLWG005	**0**	**21-02-2025**	**50**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
2/90798/1/CWLWG005	**0**	**21-02-2025**	**50**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ**	**05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
3/90798/1/CWLWG005	**0**	**21-02-2025**	**50**	**DM07**			**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000062		Acceptable				05-03-2025		

Totals per DWG	**90798**	**Prefabrication**	**5,40 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,40 m**	**3 Nr. Welds**
		Accepted	**5,40 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90799/1/CWLWG006	**0**	**21-02-2025**	**50**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
2/90799/1/CWLWG006	**0**	**21-02-2025**	**50**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**V**	**2,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**PARZ** **05-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					UT Not Applicable	
3/90799/1/CWLWG006	**0**	**21-02-2025**	**50**	**DM28**			**PL**	**297,00 mm**	**15,00 mm**	**1/2V**	**0,800 m**	**P**	**C.S.**	**2A**	**FCAW**	**T** **05-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000059		Acceptable				05-03-2025		

Totals per DWG	**90799**	**Prefabrication**	**5,40 m**	**3 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**5,40 m**	**3 Nr. Welds**
		Accepted	**5,40 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90802/1/CWG004		**0**	**04-03-2025**	**61**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000137		Acceptable					08-04-2025		
3/90802/1/CWG004		**0**	**04-03-2025**	**61**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000138		Acceptable					08-04-2025		
4/90802/1/CWG004		**0**	**04-03-2025**	**61**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000139		Acceptable					08-04-2025		
6/90802/1/CWG004		**0**	**04-03-2025**	**61**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000140		Acceptable					08-04-2025		
9/90802/1/CWG004		**0**	**03-03-2025**	**60**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
11/90802/1/CWG004		**0**	**03-03-2025**	**60**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
12/90802/1/CWG004		**0**	**03-03-2025**	**60**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
14/90802/1/CWG004		**0**	**03-03-2025**	**60**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90802/1/CWG007		**0**	**04-03-2025**	**61**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90802/1/CWG007		**0**	**04-03-2025**	**61**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000070		Acceptable					18-03-2025		
4/90802/1/CWG007		**0**	**04-03-2025**	**61**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90802/1/CWG007		**0**	**04-03-2025**	**61**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0224 03	BS	50 %	000074		Acceptable					18-03-2025		
9/90802/1/CWG007		**0**	**03-03-2025**	**60**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
11/90802/1/CWG007		**0**	**03-03-2025**	**60**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
12/90802/1/CWG007		**0**	**03-03-2025**	**60**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**05-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
14/90802/1/CWG007		**0**	**03-03-2025**	**60**	**DM28**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**19-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000065		Acceptable					19-03-2025		

Totals per DWG	**90802**			
		Prefabrication	**4,80 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,80 m**	**16 Nr. Welds**
		Accepted	**4,80 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000134		Acceptable					08-04-2025		
4/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000135		Acceptable					08-04-2025		
6/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000136		Acceptable					08-04-2025		
9/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000131		Acceptable					08-04-2025		
11/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000132		Acceptable					08-04-2025		
12/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000133		Acceptable					08-04-2025		
14/90804/1/CWG005		**0**	**07-03-2025**	**69**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000068		Acceptable					18-03-2025		
4/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000069		Acceptable					18-03-2025		
9/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
11/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000066		Acceptable					18-03-2025		
12/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
14/90804/1/CWG008		**0**	**06-03-2025**	**68**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000067		Acceptable					18-03-2025		

Totals per DWG	**90804**	**Prefabrication**	**4,80 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,80 m**	**16 Nr. Welds**
		Accepted	**4,80 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM22**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM22**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM22**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**08-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM22**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**22-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000129		Acceptable				08-04-2025			
7/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000126		Acceptable				08-04-2025			
9/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
11/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000130		Acceptable				08-04-2025			
13/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
16/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000128		Acceptable				08-04-2025			
18/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn.	Accept. Date
18/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
19/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**08-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000127		Acceptable					08-04-2025		
20/90806/1/CWG006		**0**	**21-03-2025**	**78**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
22/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
24/90806/1/CWG006		**0**	**07-03-2025**	**69**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90806/1/CWG009		**0**	**11-03-2025**	**72**	**DM22**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000083		Acceptable					01-04-2025		
2/90806/1/CWG009		**0**	**11-03-2025**	**72**	**DM22**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000084		Acceptable					01-04-2025		
3/90806/1/CWG009		**0**	**11-03-2025**	**72**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000085		Acceptable					01-04-2025		
4/90806/1/CWG009		**0**	**11-03-2025**	**72**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000086		Acceptable					01-04-2025		
5/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90806/1/CWG009		**0**	**11-03-2025**	**72**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
8/90806/1/CWG009		**0**	**11-03-2025**	**72**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90806/1/CWG009		**0**	**11-03-2025**	**72**	**DM25**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
11/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM09**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
13/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM09**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
16/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
18/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
19/90806/1/CWG009		**0**	**12-03-2025**	**73**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
20/90806/1/CWG009		**0**	**12-03-2025**	**73**	**DM25**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
22/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**10-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
24/90806/1/CWG009		**0**	**06-03-2025**	**68**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**01-04-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000087		Acceptable					01-04-2025		

Totals per DWG	**90806**	**Prefabrication**	**13,44 m**	**32 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,44 m**	**32 Nr. Welds**
		Accepted	**13,44 m**	**32 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
27/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM22**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
28/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM22**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
41/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM22**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
42/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM22**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
57/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM25**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
58/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM25**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
69/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM25**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
70/90807/1/CWG006	**0**	**21-03-2025**	**78**	**DM25**			**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**22-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
27/90807/1/CWG009		**0**	**12-03-2025**	**73**	**DM22**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
28/90807/1/CWG009		**0**	**12-03-2025**	**73**	**DM22**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
41/90807/1/CWG009		**0**	**13-03-2025**	**74**	**DM07**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
42/90807/1/CWG009		**0**	**13-03-2025**	**74**	**DM07**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
57/90807/1/CWG009		**0**	**13-03-2025**	**74**	**DM25**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
58/90807/1/CWG009		**0**	**13-03-2025**	**74**	**DM22**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
69/90807/1/CWG009		**0**	**14-03-2025**	**75**	**DM25**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
70/90807/1/CWG009		**0**	**14-03-2025**	**75**	**DM25**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90807**			
		Prefabrication	**2,40 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,40 m**	**16 Nr. Welds**
		Accepted	**2,40 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
9/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000142		Acceptable					07-04-2025		
11/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000143		Acceptable					07-04-2025		
12/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000144		Acceptable					07-04-2025		
14/90809/1/CWG002		**0**	**22-03-2025**	**83**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000145		Acceptable					07-04-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000122		Acceptable				31-03-2025			
3/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000123		Acceptable				31-03-2025			
4/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM25**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000124		Acceptable				31-03-2025			
6/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM25**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000125		Acceptable				31-03-2025			
9/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000116		Acceptable				31-03-2025			
11/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM22**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000117		Acceptable				31-03-2025			
12/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM25**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000118		Acceptable				31-03-2025			
14/90809/1/CWG011		**0**	**17-03-2025**	**85**	**DM25**		**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0216 04	BS	50 %	000119		Acceptable				31-03-2025			

Totals per DWG	**90809**	**Prefabrication**	**4,80 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,80 m**	**16 Nr. Welds**
		Accepted	**4,80 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90811/1/CWG001	**0**	**20-03-2025**	**77**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000075		Acceptable				25-03-2025		
3/90811/1/CWG001	**0**	**20-03-2025**	**77**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000076		Acceptable				25-03-2025		
4/90811/1/CWG001	**0**	**20-03-2025**	**77**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000077		Acceptable				25-03-2025		
6/90811/1/CWG001	**0**	**20-03-2025**	**77**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000078		Acceptable				25-03-2025		
9/90811/1/CWG001	**0**	**21-03-2025**	**78**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000079		Acceptable				25-03-2025		
11/90811/1/CWG001	**0**	**21-03-2025**	**78**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000080		Acceptable				25-03-2025		
12/90811/1/CWG001	**0**	**21-03-2025**	**78**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000081		Acceptable				25-03-2025		
14/90811/1/CWG001	**0**	**21-03-2025**	**78**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**25-03-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS	50 %	000082		Acceptable				25-03-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90811/1/CWG012		**0**	**14-03-2025**	**75**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
3/90811/1/CWG012		**0**	**14-03-2025**	**75**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000121		Acceptable					31-03-2025		
4/90811/1/CWG012		**0**	**14-03-2025**	**75**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
6/90811/1/CWG012		**0**	**14-03-2025**	**75**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**31-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000120		Acceptable					31-03-2025		
9/90811/1/CWG012		**0**	**15-03-2025**	**76**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
11/90811/1/CWG012		**0**	**15-03-2025**	**76**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
12/90811/1/CWG012		**0**	**15-03-2025**	**76**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,302 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
14/90811/1/CWG012		**0**	**15-03-2025**	**76**	**DM07**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**17-03-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							

Totals per DWG	**90811**			
		Prefabrication	**4,80 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**4,80 m**	**16 Nr. Welds**
		Accepted	**4,80 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90813/1/CWG003	**0**	**29-03-2025**	**93**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	BS	50 %	000147		Acceptable				07-04-2025		
2/90813/1/CWG003	**0**	**29-03-2025**	**93**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90813/1/CWG003	**0**	**29-03-2025**	**93**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	BS	50 %	000148		Acceptable				07-04-2025		
4/90813/1/CWG003	**0**	**29-03-2025**	**93**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	BS	50 %	000149		Acceptable				07-04-2025		
5/90813/1/CWG003	**0**	**17-03-2025**	**79**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
7/90813/1/CWG003	**0**	**17-03-2025**	**79**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
8/90813/1/CWG003	**0**	**17-03-2025**	**79**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
9/90813/1/CWG003	**0**	**17-03-2025**	**79**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
11/90813/1/CWG003	**0**	**17-03-2025**	**79**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
13/90813/1/CWG003	**0**	**17-03-2025**	**79**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
16/90813/1/CWG003	**0**	**18-03-2025**	**80**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
18/90813/1/CWG003	**0**	**18-03-2025**	**80**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
18/90813/1/CWG003		**0**	**18-03-2025**	**80**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
19/90813/1/CWG003		**0**	**18-03-2025**	**80**	**DM07**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
20/90813/1/CWG003		**0**	**18-03-2025**	**80**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0216 04	BS	50 %	000146		Acceptable					07-04-2025		
22/90813/1/CWG003		**0**	**18-03-2025**	**80**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**07-04-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
24/90813/1/CWG003		**0**	**18-03-2025**	**80**	**DM09**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
1/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM07**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-04-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
2/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM07**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-04-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
3/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM07**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-04-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
4/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM07**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,775 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**03-04-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
5/90813/1/CWG013		**0**	**19-03-2025**	**89**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0216 04	BS	50 %	000152		Acceptable					31-03-2025		
7/90813/1/CWG013		**0**	**19-03-2025**	**89**	**DM25**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0216 04	BS	50 %	000153		Acceptable					31-03-2025		
8/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM22**			**HEB**	**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
8/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM22**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
9/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM22**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
11/90813/1/CWG013		**0**	**19-03-2025**	**89**	**DM25**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000154		Acceptable					31-03-2025		
13/90813/1/CWG013		**0**	**19-03-2025**	**89**	**DM25**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion					50 %			Acceptable							
16/90813/1/CWG013		**0**	**20-03-2025**	**90**	**DM25**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000155		Acceptable					31-03-2025		
18/90813/1/CWG013		**0**	**20-03-2025**	**90**	**DM25**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000150		Acceptable					31-03-2025		
19/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM22**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000157		Acceptable					31-03-2025		
20/90813/1/CWG013		**0**	**29-03-2025**	**93**	**DM22**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000158		Acceptable					31-03-2025		
22/90813/1/CWG013		**0**	**20-03-2025**	**90**	**DM25**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000151		Acceptable					31-03-2025		
24/90813/1/CWG013		**0**	**20-03-2025**	**90**	**DM25**			**HEB**		**800,00 mm**	**33,00 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0216 04	BS		50 %	000156		Acceptable					31-03-2025		

Totals per DWG	**90813**	**Prefabrication**	**13,44 m**	**32 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,44 m**	**32 Nr. Welds**
		Accepted	**13,44 m**	**32 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
27/90814/1/CWG003	**0**	**19-03-2025**	**81**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
28/90814/1/CWG003	**0**	**19-03-2025**	**81**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
41/90814/1/CWG003	**0**	**19-03-2025**	**81**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
42/90814/1/CWG003	**0**	**19-03-2025**	**81**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
57/90814/1/CWG003	**0**	**20-03-2025**	**82**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
58/90814/1/CWG003	**0**	**20-03-2025**	**82**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
69/90814/1/CWG003	**0**	**20-03-2025**	**82**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
70/90814/1/CWG003	**0**	**20-03-2025**	**82**	**DM07**		**PL**		**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**24-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
27/90814/1/CWG013		**0**	**21-03-2025**	**91**	**DM07**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BS	50 %	000159		Acceptable					31-03-2025		
28/90814/1/CWG013		**0**	**21-03-2025**	**91**	**DM07**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BS	50 %	000160		Acceptable					31-03-2025		
41/90814/1/CWG013		**0**	**21-03-2025**	**91**	**DM09**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
42/90814/1/CWG013		**0**	**21-03-2025**	**91**	**DM09**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
57/90814/1/CWG013		**0**	**24-03-2025**	**92**	**DM22**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
58/90814/1/CWG013		**0**	**24-03-2025**	**92**	**DM22**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
69/90814/1/CWG013		**0**	**24-03-2025**	**92**	**DM09**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
70/90814/1/CWG013		**0**	**24-03-2025**	**92**	**DM09**		**PL**	**150,00 mm**	**20,00 mm**	**1/2V**	**0,150 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**03-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90814**	**Prefabrication**	**2,40 m**	**16 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,40 m**	**16 Nr. Welds**
		Accepted	**2,40 m**	**16 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
3/90821/1/CWG011	**0**	**18-03-2025**	**3**	**DM22**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000112		Acceptable				01-04-2025		
4/90821/1/CWG011	**0**	**18-03-2025**	**3**	**DM22**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000113		Acceptable				01-04-2025		
5/90821/1/CWG011	**0**	**18-03-2025**	**3**	**DM22**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000114		Acceptable				01-04-2025		
6/90821/1/CWG011	**0**	**18-03-2025**	**3**	**DM22**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000115		Acceptable				01-04-2025		
5/90821/1/CWG013	**0**	**27-03-2025**	**9**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000088		Acceptable				01-04-2025		
6/90821/1/CWG013	**0**	**26-03-2025**	**8**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000090		Acceptable				01-04-2025		
7/90821/1/CWG013	**0**	**27-03-2025**	**9**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000089		Acceptable				01-04-2025		
8/90821/1/CWG013	**0**	**26-03-2025**	**8**	**DM25**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000091		Acceptable				01-04-2025		

Totals per DWG	**90821**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**2,40 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,40 m**	**8 Nr. Welds**
		Accepted	**2,40 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
5/90823/1/CWG002		**0**	**02-04-2025**	**13**	**DM22**		**PL**		**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90823/1/CWG002		**0**	**03-04-2025**	**14**	**DM22**		**PL**		**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90823/1/CWG002		**0**	**02-04-2025**	**13**	**DM22**		**PL**		**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90823/1/CWG002		**0**	**03-04-2025**	**14**	**DM22**		**PL**		**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**07-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90823/1/CWG003		**0**	**10-04-2025**	**18**	**DM22**		**PL**		**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
9/90823/1/CWG003		**0**	**11-04-2025**	**19**	**DM22**		**PL**		**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
10/90823/1/CWG003		**0**	**11-04-2025**	**19**	**DM22**		**PL**		**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
11/90823/1/CWG003		**0**	**10-04-2025**	**18**	**DM22**		**PL**		**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90823**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**2,40 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,40 m**	**8 Nr. Welds**
		Accepted	**2,40 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
25/90824/1/CWG004		**00**	**18-07-2025**	**132**	**OM61**		**PL**	**540,00 mm**	**20,00 mm**	**K**	**0,810 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-07-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	000274		Acceptable				28-07-2025		
26/90824/1/CWG004		**00**	**18-07-2025**	**132**	**OM61**		**PL**	**540,00 mm**	**20,00 mm**	**K**	**0,810 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-07-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	000275		Acceptable				28-07-2025		
27/90824/1/CWG004		**00**	**18-07-2025**	**132**	**OM61**		**PL**	**540,00 mm**	**20,00 mm**	**K**	**0,810 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-07-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	000276		Acceptable				28-07-2025		

Totals per DWG	**90824**			
		Prefabrication	**0,00 m**	**0 Nr. Welds**
		Erection	**2,43 m**	**3 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,43 m**	**3 Nr. Welds**
		Accepted	**2,43 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
5/90825/1/CWG005	**0**	**22-03-2025**	**5**	**DM09**		**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90825/1/CWG005	**0**	**22-03-2025**	**5**	**DM09**		**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
7/90825/1/CWG005	**0**	**22-03-2025**	**5**	**DM09**		**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90825/1/CWG005	**0**	**22-03-2025**	**5**	**DM09**		**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
8/90825/1/CWG006	**0**	**26-03-2025**	**8**	**DM22**		**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
9/90825/1/CWG006	**0**	**27-03-2025**	**9**	**DM22**		**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
11/90825/1/CWG006	**0**	**27-03-2025**	**9**	**DM22**		**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							
12/90825/1/CWG006	**0**	**26-03-2025**	**8**	**DM22**		**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable							

Totals per DWG	**90825**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**2,40 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,40 m**	**8 Nr. Welds**
		Accepted	**2,40 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
25/90826/1/CWG007		**00**	**18-07-2025**	**132**	**OM61**		**PL**	**540,00 mm**	**20,00 mm**	**K**	**0,817 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-07-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	000277		Acceptable				28-07-2025		
26/90826/1/CWG007		**00**	**18-07-2025**	**132**	**OM61**		**PL**	**540,00 mm**	**20,00 mm**	**K**	**0,817 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-07-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	000278		Acceptable				28-07-2025		
27/90826/1/CWG007		**00**	**18-07-2025**	**132**	**OM61**		**PL**	**540,00 mm**	**20,00 mm**	**K**	**0,817 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**28-07-2025**
III		UT	FIN	Weld Completion	IDL-QCI-UT 0215 04	ROM	50 %	000279		Acceptable				28-07-2025		

Totals per DWG	**90826**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**2,46 m**	**3 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,46 m**	**3 Nr. Welds**
		Accepted	**2,46 m**	**3 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
5/90827/1/CWG008		**0**	**13-03-2025**	**2**	**DM09**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**17-03-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90827/1/CWG008		**0**	**13-03-2025**	**2**	**DM09**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000071		Acceptable					18-03-2025		
7/90827/1/CWG008		**0**	**13-03-2025**	**2**	**DM09**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000072		Acceptable					18-03-2025		
8/90827/1/CWG008		**0**	**13-03-2025**	**2**	**DM09**			**PL**	**450,00 mm**	**20,00 mm**	**1/2V**	**0,270 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-03-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000073		Acceptable					18-03-2025		
9/90827/1/CWG009		**0**	**24-03-2025**	**6**	**DM07**			**PL**	**347,00 mm**	**51,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000092		Acceptable					01-04-2025		
10/90827/1/CWG009		**0**	**24-03-2025**	**6**	**DM07**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000093		Acceptable					01-04-2025		
11/90827/1/CWG009		**0**	**24-03-2025**	**6**	**DM07**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000094		Acceptable					01-04-2025		
12/90827/1/CWG009		**0**	**24-03-2025**	**6**	**DM07**			**PL**	**347,00 mm**	**15,00 mm**	**1/2V**	**0,325 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000095		Acceptable					01-04-2025		

Totals per DWG	**90827**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**2,40 m**	**8 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,40 m**	**8 Nr. Welds**
		Accepted	**2,40 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type	Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
3/90830/1/CWGS017		**0**	**25-03-2025**	**86**	**DM07**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion						50 %			Acceptable							
4/90830/1/CWGS017		**0**	**25-03-2025**	**86**	**DM07**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion						50 %			Acceptable							
3/90830/1/CWGS018		**0**	**25-03-2025**	**86**	**DM07**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion						50 %			Acceptable							
4/90830/1/CWGS018		**0**	**25-03-2025**	**86**	**DM07**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion						50 %			Acceptable							
3/90830/1/CWGS023		**0**	**25-03-2025**	**86**	**DM09**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS		50 %	000100		Acceptable					01-04-2025		
4/90830/1/CWGS023		**0**	**25-03-2025**	**86**	**DM09**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS		50 %	000101		Acceptable					01-04-2025		
3/90830/1/CWGS024		**0**	**25-03-2025**	**86**	**DM09**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS		50 %	000102		Acceptable					01-04-2025		
4/90830/1/CWGS024		**0**	**25-03-2025**	**86**	**DM09**			**PL**		**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS		50 %	000103		Acceptable					01-04-2025		

Totals per DWG	**90830**			
		Prefabrication	**2,00 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,00 m**	**8 Nr. Welds**
		Accepted	**2,00 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Conn	Accept. Date
3/90831/1/CWGS019		**0**	**26-03-2025**	**87**	**DM07**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
4/90831/1/CWGS019		**0**	**26-03-2025**	**87**	**DM07**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
3/90831/1/CWGS020		**0**	**26-03-2025**	**87**	**DM07**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
4/90831/1/CWGS020		**0**	**26-03-2025**	**87**	**DM07**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**31-03-2025**
III	UT	FIN	Weld Completion					50 %			Acceptable							
3/90831/1/CWGS021		**0**	**26-03-2025**	**87**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS	50 %	000096		Acceptable					01-04-2025		
4/90831/1/CWGS021		**0**	**26-03-2025**	**87**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS	50 %	000097		Acceptable					01-04-2025		
3/90831/1/CWGS022		**0**	**26-03-2025**	**87**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS	50 %	000098		Acceptable					01-04-2025		
4/90831/1/CWGS022		**0**	**26-03-2025**	**87**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion			IDL-QCI-UT 0223 02	BS	50 %	000099		Acceptable					01-04-2025		

Totals per DWG	**90831**	**Prefabrication**	**2,00 m**	**8 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**2,00 m**	**8 Nr. Welds**
		Accepted	**2,00 m**	**8 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90832/1/CWGS029	**0**	**27-03-2025**	**88**	**DM07**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000108		Acceptable				01-04-2025		
2/90832/1/CWGS030	**0**	**27-03-2025**	**88**	**DM07**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000109		Acceptable				01-04-2025		
2/90832/1/CWGS035	**0**	**27-03-2025**	**88**	**DM07**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000110		Acceptable				01-04-2025		
2/90832/1/CWGS036	**0**	**27-03-2025**	**88**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000111		Acceptable				01-04-2025		

Totals per DWG	**90832**	**Prefabrication**	**1,00 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,00 m**	**4 Nr. Welds**
		Accepted	**1,00 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
2/90833/1/CWGS031	**0**	**27-03-2025**	**88**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000104		Acceptable				01-04-2025		
2/90833/1/CWGS032	**0**	**27-03-2025**	**88**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000105		Acceptable				01-04-2025		
2/90833/1/CWGS033	**0**	**27-03-2025**	**88**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000106		Acceptable				01-04-2025		
2/90833/1/CWGS034	**0**	**27-03-2025**	**88**	**DM09**			**PL**	**267,00 mm**	**20,00 mm**	**K**	**0,250 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**01-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000107		Acceptable				01-04-2025		

Totals per DWG	**90833**	**Prefabrication**	**1,00 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,00 m**	**4 Nr. Welds**
		Accepted	**1,00 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90839/1/CWGS003		**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000255		Acceptable					24-07-2025		
2/90839/1/CWGS003		**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90839/1/CWGS003		**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90839/1/CWGS003		**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000256		Acceptable					24-07-2025		
5/90839/1/CWGS003		**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000198		Acceptable					30-04-2025		
6/90839/1/CWGS003		**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000199		Acceptable					30-04-2025		
7/90839/1/CWGS003		**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000200		Acceptable					30-04-2025		
8/90839/1/CWGS003		**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000201		Acceptable					30-04-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90839/1/CWGS019	**0**	**19-07-2025**	**121**	**OM61**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		
2/90839/1/CWGS019	**0**	**19-07-2025**	**121**	**OM61**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		
1/90839/1/CWGS023	**0**	**19-07-2025**	**115**	**OM617**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		
2/90839/1/CWGS023	**0**	**19-07-2025**	**115**	**OM617**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		
1/90839/1/CWGS031	**0**	**19-07-2025**	**121**	**OM61**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		
2/90839/1/CWGS031	**0**	**19-07-2025**	**121**	**OM61**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		
3/90839/1/CWGS031	**0**	**19-07-2025**	**121**	**OM61**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		
4/90839/1/CWGS031	**0**	**19-07-2025**	**121**	**OM61**		**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90839/1/CWGS035		**0**	**19-07-2025**	**115**	**OM617**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable						No scanning area	
2/90839/1/CWGS035		**0**	**19-07-2025**	**115**	**OM617**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable						No scanning area	
3/90839/1/CWGS035		**0**	**19-07-2025**	**115**	**OM617**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable						No scanning area	
4/90839/1/CWGS035		**0**	**19-07-2025**	**115**	**OM617**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable						No scanning area	
1/90839/1/CWGS041		**0**	**14-07-2025**	**108**	**OM623**			**PL**	**630,00 mm**	**25,00 mm**	**1/2V**	**1,050 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000221		Acceptable					15-07-2025		
1/90839/1/CWGS042		**0**	**14-07-2025**	**108**	**OM623**			**PL**	**630,00 mm**	**25,00 mm**	**1/2V**	**1,050 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90839/1/CWGS047		**0**	**15-07-2025**	**109**	**OM623**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000229		Acceptable					18-07-2025		
2/90839/1/CWGS047		**0**	**15-07-2025**	**109**	**OM623**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000230		Acceptable					18-07-2025		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90839/1/CWGS051	**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000202		Acceptable					30-04-2025		
2/90839/1/CWGS051	**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000203		Acceptable					30-04-2025		
3/90839/1/CWGS051	**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000204		Acceptable					30-04-2025		
4/90839/1/CWGS051	**0**	**28-04-2025**	**23**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000205		Acceptable					30-04-2025		
5/90839/1/CWGS051	**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000257		Acceptable					24-07-2025		
6/90839/1/CWGS051	**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000258		Acceptable					24-07-2025		
7/90839/1/CWGS051	**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90839/1/CWGS051	**0**	**22-07-2025**	**128**	**OM61**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90839/1/CWGS055	**0**	**15-07-2025**	**109**	**OM623**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000231		Acceptable				18-07-2025		
2/90839/1/CWGS055	**0**	**15-07-2025**	**109**	**OM623**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000232		Acceptable				18-07-2025		
1/90839/1/CWGS059	**0**	**15-07-2025**	**109**	**OM623**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000223		Acceptable				18-07-2025		
1/90839/1/CWGS063	**0**	**15-07-2025**	**109**	**OM623**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000224		Acceptable				18-07-2025		

Totals per DWG	**90839**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**13,56 m**	**36 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,56 m**	**36 Nr. Welds**
		Accepted	**13,56 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90841/1/CWGS004	**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000268		Acceptable					25-07-2025		
2/90841/1/CWGS004	**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90841/1/CWGS004	**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000269		Acceptable					25-07-2025		
4/90841/1/CWGS004	**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000270		Acceptable					25-07-2025		
5/90841/1/CWGS004	**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000194		Acceptable					30-04-2025		
6/90841/1/CWGS004	**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000195		Acceptable					30-04-2025		
7/90841/1/CWGS004	**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000196		Acceptable					30-04-2025		
8/90841/1/CWGS004	**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000197		Acceptable					30-04-2025		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90841/1/CWGS020	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
2/90841/1/CWGS020	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
1/90841/1/CWGS024	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
2/90841/1/CWGS024	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
1/90841/1/CWGS032	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
2/90841/1/CWGS032	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
3/90841/1/CWGS032	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
4/90841/1/CWGS032	**0**	**19-07-2025**	**123**	**OM57**			**PL**	**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ** **25-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep		Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90841/1/CWGS036		**0**	**19-07-2025**	**123**	**OM57**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
	III	UT	FIN	Weld Completion			50 %				Acceptable						No scanning area	
2/90841/1/CWGS036		**0**	**19-07-2025**	**123**	**OM57**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
	III	UT	FIN	Weld Completion			50 %				Acceptable						No scanning area	
3/90841/1/CWGS036		**0**	**19-07-2025**	**123**	**OM57**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
	III	UT	FIN	Weld Completion			50 %				Acceptable							
4/90841/1/CWGS036		**0**	**19-07-2025**	**123**	**OM57**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
	III	UT	FIN	Weld Completion			50 %				Acceptable						No scanning area	
1/90841/1/CWGS043		**0**	**14-07-2025**	**105**	**OM623**			**PL**		**630,00 mm**	**25,00 mm**	**1/2V**	**1,050 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000219		Acceptable					15-07-2025		
1/90841/1/CWGS044		**0**	**14-07-2025**	**105**	**OM318**			**PL**		**630,00 mm**	**25,00 mm**	**1/2V**	**1,050 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
	III	UT	FIN	Weld Completion			50 %				Acceptable							
1/90841/1/CWGS048		**0**	**11-07-2025**	**102**	**OM405**			**PL**		**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000215		Acceptable					15-07-2025		
2/90841/1/CWGS048		**0**	**11-07-2025**	**102**	**OM405**			**PL**		**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000218		Acceptable					15-07-2025		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Cons / NOTE	Accept. Date
1/90841/1/CWGS052		**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90841/1/CWGS052		**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90841/1/CWGS052		**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90841/1/CWGS052		**0**	**23-04-2025**	**21**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90841/1/CWGS052		**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000271		Acceptable					25-07-2025		
6/90841/1/CWGS052		**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000272		Acceptable					25-07-2025		
7/90841/1/CWGS052		**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90841/1/CWGS052		**0**	**22-07-2025**	**129**	**OM15**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**25-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000273		Acceptable					25-07-2025		

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Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90841/1/CWGS056	**0**	**11-07-2025**	**102**	**OM405**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90841/1/CWGS056	**0**	**11-07-2025**	**102**	**OM405**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90841/1/CWGS060	**0**	**11-07-2025**	**102**	**OM405**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000216		Acceptable					15-07-2025		
1/90841/1/CWGS064	**0**	**11-07-2025**	**102**	**OM405**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**15-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000217		Acceptable					15-07-2025		

Totals per DWG	**90841**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**13,56 m**	**36 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,56 m**	**36 Nr. Welds**
		Accepted	**13,56 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders	Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material	WPS / Defect length	Techn. Weld. / CND date	Type Conn / NOTE	Accept. Date
1/90843/1/CWGS001		**0**	**24-04-2025**	**22**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90843/1/CWGS001		**0**	**24-04-2025**	**22**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
3/90843/1/CWGS001		**0**	**24-04-2025**	**22**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90843/1/CWGS001		**0**	**24-04-2025**	**22**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90843/1/CWGS001		**0**	**22-07-2025**	**130**	**OM57**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000259		Acceptable					24-07-2025		
6/90843/1/CWGS001		**0**	**22-07-2025**	**130**	**OM57**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000260		Acceptable					24-07-2025		
7/90843/1/CWGS001		**0**	**22-07-2025**	**130**	**OM57**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
	III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000261		Acceptable					24-07-2025		
8/90843/1/CWGS001		**0**	**22-07-2025**	**130**	**OM57**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
	III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90843/1/CWGS017	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	
2/90843/1/CWGS017	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	
1/90843/1/CWGS021	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	
2/90843/1/CWGS021	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	
1/90843/1/CWGS029	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	
2/90843/1/CWGS029	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	
3/90843/1/CWGS029	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	
4/90843/1/CWGS029	**0**	**19-07-2025**	**125**	**OM617**		**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable					No scanning area	

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep		Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90843/1/CWGS033	**0**	**19-07-2025**	**125**	**OM15**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
2/90843/1/CWGS033	**0**	**19-07-2025**	**125**	**OM15**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
3/90843/1/CWGS033	**0**	**19-07-2025**	**125**	**OM15**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
4/90843/1/CWGS033	**0**	**19-07-2025**	**125**	**OM15**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**25-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
1/90843/1/CWGS037	**0**	**14-07-2025**	**106**	**OM617**			**PL**		**630,00 mm**	**25,00 mm**	**1/2V**	**1,050 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							
1/90843/1/CWGS038	**0**	**12-07-2025**	**104**	**OM617**			**PL**		**630,00 mm**	**25,00 mm**	**1/2V**	**1,050 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000222			Acceptable					15-07-2025		
1/90843/1/CWGS045	**0**	**15-07-2025**	**110**	**OM616**			**PL**		**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000239			Acceptable					18-07-2025		
2/90843/1/CWGS045	**0**	**15-07-2025**	**110**	**OM616**			**PL**		**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000240			Acceptable					18-07-2025		

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90843/1/CWGS049		**0**	**22-07-2025**	**130**	**OM57**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000262		Acceptable					24-07-2025		
2/90843/1/CWGS049		**0**	**22-07-2025**	**130**	**OM57**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000263		Acceptable					24-07-2025		
3/90843/1/CWGS049		**0**	**22-07-2025**	**130**	**OM57**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90843/1/CWGS049		**0**	**22-07-2025**	**130**	**OM57**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90843/1/CWGS049		**0**	**24-04-2025**	**22**	**DM22**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90843/1/CWGS049		**0**	**24-04-2025**	**22**	**DM22**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
7/90843/1/CWGS049		**0**	**24-04-2025**	**22**	**DM22**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
8/90843/1/CWGS049		**0**	**24-04-2025**	**22**	**DM22**		**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90843/1/CWGS053	**0**	**15-07-2025**	**110**	**OM616**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000237		Acceptable				18-07-2025		
2/90843/1/CWGS053	**0**	**15-07-2025**	**110**	**OM616**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000238		Acceptable				18-07-2025		
1/90843/1/CWGS057	**0**	**15-07-2025**	**110**	**OM616**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000227		Acceptable				18-07-2025		
1/90843/1/CWGS061	**0**	**15-07-2025**	**110**	**OM616**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000228		Acceptable				18-07-2025		

Totals per DWG	**90843**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**13,56 m**	**36 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**13,56 m**	**36 Nr. Welds**
		Accepted	**13,56 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90845/1/CWGS002		**22-04-2025**	**24**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	BS	50 %	000191		Acceptable				30-04-2025		
2/90845/1/CWGS002		**22-04-2025**	**20**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90845/1/CWGS002		**22-04-2025**	**20**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000192		Acceptable				30-04-2025		
4/90845/1/CWGS002		**22-04-2025**	**20**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000193		Acceptable				30-04-2025		
5/90845/1/CWGS002		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000264		Acceptable				24-07-2025		
6/90845/1/CWGS002		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000265		Acceptable				24-07-2025		
7/90845/1/CWGS002		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
8/90845/1/CWGS002		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90845/1/CWGS018		**19-07-2025**	**115**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
2/90845/1/CWGS018		**19-07-2025**	**115**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
1/90845/1/CWGS022		**19-07-2025**	**115**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
2/90845/1/CWGS022		**19-07-2025**	**115**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
1/90845/1/CWGS030		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
2/90845/1/CWGS030		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
3/90845/1/CWGS030		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	
4/90845/1/CWGS030		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable					No scanning area	

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Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep		Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90845/1/CWGS034		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
2/90845/1/CWGS034		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,100 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
3/90845/1/CWGS034		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
4/90845/1/CWGS034		**19-07-2025**	**127**	**OM61**			**PL**		**250,00 mm**	**50,00 mm**	**1/2V**	**0,250 m**	**M**	**C.S.**	**2A**	**FCAW**	**PARZ**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable						No scanning area	
1/90845/1/CWGS039		**13-07-2025**	**107**	**OM115**			**PIPE**		**323,90 mm**	**12,70 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**14-07-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							
1/90845/1/CWGS040		**12-07-2025**	**103**	**OM115**			**PL**		**630,00 mm**	**25,00 mm**	**1/2V**	**1,050 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**15-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000220			Acceptable					15-07-2025		
1/90845/1/CWGS046		**15-07-2025**	**111**	**OM15**			**PL**		**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000233			Acceptable					18-07-2025		
2/90845/1/CWGS046		**15-07-2025**	**111**	**OM15**			**PL**		**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000234			Acceptable					18-07-2025		

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Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90845/1/CWGS050		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000266		Acceptable				24-07-2025		
2/90845/1/CWGS050		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**23-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
3/90845/1/CWGS050		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
4/90845/1/CWGS050		**22-07-2025**	**131**	**OM115**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**24-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	VP	50 %	000267		Acceptable				24-07-2025		
5/90845/1/CWGS050		**22-04-2025**	**20**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
6/90845/1/CWGS050		**22-04-2025**	**20**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
7/90845/1/CWGS050		**22-04-2025**	**20**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						
8/90845/1/CWGS050		**22-04-2025**	**20**	**DM22**			**PIPE**	**323,90 mm**	**14,27 mm**	**1/2V**	**0,350 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**29-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable						

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Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90845/1/CWGS054		**15-07-2025**	**111**	**OM15**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,410 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000235		Acceptable				18-07-2025		
2/90845/1/CWGS054		**15-07-2025**	**111**	**OM15**			**PL**	**550,00 mm**	**25,00 mm**	**1/2V**	**0,997 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	VP	50 %	000236		Acceptable				18-07-2025		
1/90845/1/CWGS058		**15-07-2025**	**111**	**OM15**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000226		Acceptable				18-07-2025		
1/90845/1/CWGS062		**15-07-2025**	**111**	**OM15**			**PL**	**100,00 mm**	**25,00 mm**	**1/2V**	**0,115 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**18-07-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	VP	50 %	000225		Acceptable				18-07-2025		

Totals per DWG	**90845**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**12,86 m**	**36 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**12,86 m**	**36 Nr. Welds**
		Accepted	**12,86 m**	**36 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90846/1/CWGSCF001	**0**	**16-04-2025**	**101**	**DM09**			**PL**	**197,00 mm**	**15,00 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
2/90846/1/CWGSCF001	**0**	**16-04-2025**	**101**	**DM09**			**PL**	**197,00 mm**	**15,00 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
1/90846/1/CWGSCF002	**0**	**17-04-2025**	**100**	**DM09**			**PL**	**197,00 mm**	**15,00 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	BS	50 %	000171		Acceptable					06-05-2025		
2/90846/1/CWGSCF002	**0**	**17-04-2025**	**100**	**DM09**			**PL**	**197,00 mm**	**15,00 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0214 03	BS	50 %	000172		Acceptable					06-05-2025		

Totals per DWG	**90846**	**Prefabrication**	**1,32 m**	**4 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,32 m**	**4 Nr. Welds**
		Accepted	**1,32 m**	**4 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.		Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90848/1/CWGSCF005	**0**	**19-04-2025**	**98**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							
2/90848/1/CWGSCF005	**0**	**19-04-2025**	**98**	**DM09**			**HEA**		**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							
3/90848/1/CWGSCF005	**0**	**19-04-2025**	**98**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							
1/90848/1/CWGSCF010	**0**	**19-04-2025**	**98**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000161			Acceptable					06-05-2025		
2/90848/1/CWGSCF010	**0**	**19-04-2025**	**98**	**DM09**			**HEA**		**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000163			Acceptable					06-05-2025		
3/90848/1/CWGSCF010	**0**	**19-04-2025**	**98**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**BW**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000162			Acceptable					06-05-2025		

Totals per DWG	**90848**	**Prefabrication**	**1,86 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**6 Nr. Welds**
		Accepted	**1,86 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
1/90849/1/CWGSCF006	**0**	**23-04-2025**	**96**	**DM09**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000173		Acceptable				05-05-2025		
2/90849/1/CWGSCF006	**0**	**23-04-2025**	**96**	**DM09**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000177		Acceptable				05-05-2025		
3/90849/1/CWGSCF006	**0**	**23-04-2025**	**96**	**DM09**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000174		Acceptable				05-05-2025		
4/90849/1/CWGSCF006	**0**	**23-04-2025**	**96**	**DM09**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000175		Acceptable				05-05-2025		
5/90849/1/CWGSCF006	**0**	**23-04-2025**	**96**	**DM09**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000178		Acceptable				05-05-2025		
6/90849/1/CWGSCF006	**0**	**23-04-2025**	**96**	**DM09**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000176		Acceptable				05-05-2025		

Totals per DWG	**90849**	**Prefabrication**	**1,86 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**6 Nr. Welds**
		Accepted	**1,86 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date
1/90850/1/CWGSCF007		**0**	**23-04-2025**	**96**	**DM07**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-05-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BS	50 %	000165		Acceptable					06-05-2025		
2/90850/1/CWGSCF007		**0**	**23-04-2025**	**96**	**DM07**		**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-05-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0222 02	BS	50 %	000167		Acceptable					06-05-2025		
3/90850/1/CWGSCF007		**0**	**23-04-2025**	**96**	**DM07**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-05-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BS	50 %	000166		Acceptable					06-05-2025		
4/90850/1/CWGSCF007		**0**	**23-04-2025**	**96**	**DM07**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
5/90850/1/CWGSCF007		**0**	**23-04-2025**	**96**	**DM07**		**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
	III	UT	FIN	Weld Completion			50 %			Acceptable							
6/90850/1/CWGSCF007		**0**	**23-04-2025**	**96**	**DM07**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-05-2025**
	III	UT	FIN	Weld Completion	IDL-QCI-UT 0223 02	BS	50 %	000164		Acceptable					06-05-2025		

Totals per DWG	**90850**	**Prefabrication**	**1,86 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**6 Nr. Welds**
		Accepted	**1,86 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.		Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90851/1/CWGSCF008	**0**	**26-04-2025**	**94**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							
2/90851/1/CWGSCF008	**0**	**26-04-2025**	**94**	**DM09**			**HEA**		**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							
3/90851/1/CWGSCF008	**0**	**26-04-2025**	**94**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000168			Acceptable					06-05-2025		
4/90851/1/CWGSCF008	**0**	**26-04-2025**	**94**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000169			Acceptable					06-05-2025		
5/90851/1/CWGSCF008	**0**	**26-04-2025**	**94**	**DM09**			**HEA**		**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**06-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000170			Acceptable					06-05-2025		
6/90851/1/CWGSCF008	**0**	**26-04-2025**	**94**	**DM09**			**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %				Acceptable							

Totals per DWG	**90851**	**Prefabrication**	**1,86 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**6 Nr. Welds**
		Accepted	**1,86 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders			Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90852/1/CWGSCF009	**0**	**26-04-2025**	**94**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000180		Acceptable					05-05-2025		
2/90852/1/CWGSCF009	**0**	**26-04-2025**	**94**	**DM07**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000179		Acceptable					05-05-2025		
3/90852/1/CWGSCF009	**0**	**26-04-2025**	**94**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
4/90852/1/CWGSCF009	**0**	**26-04-2025**	**94**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
5/90852/1/CWGSCF009	**0**	**26-04-2025**	**94**	**DM07**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							
6/90852/1/CWGSCF009	**0**	**26-04-2025**	**94**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**P**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion				50 %			Acceptable							

Totals per DWG	**90852**	**Prefabrication**	**1,86 m**	**6 Nr. Welds**
		Erection	**0,00 m**	**0 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**1,86 m**	**6 Nr. Welds**
		Accepted	**1,86 m**	**6 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type		Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE	
1/90853/1/CWGSCF004		**0**	**28-04-2025**	**25**	**DM09**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
2/90853/1/CWGSCF004		**0**	**28-04-2025**	**25**	**DM09**		**HEA**		**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
3/90853/1/CWGSCF004		**0**	**28-04-2025**	**25**	**DM09**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
9/90853/1/CWGSCF008		**0**	**28-04-2025**	**25**	**DM09**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
11/90853/1/CWGSCF008		**0**	**28-04-2025**	**25**	**DM09**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
12/90853/1/CWGSCF009		**0**	**28-04-2025**	**25**	**DM09**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							
14/90853/1/CWGSCF009		**0**	**28-04-2025**	**25**	**DM09**		**HEA**		**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**30-04-2025**
III		UT	FIN	Weld Completion			50 %			Acceptable							

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders	Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase	Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
4/90853/1/CWGSCF010	**0**	**28-04-2025**	**25**	**DM09**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
5/90853/1/CWGSCF010	**0**	**28-04-2025**	**25**	**DM09**		**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						
6/90853/1/CWGSCF010	**0**	**28-04-2025**	**25**	**DM09**		**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**30-04-2025**
III	UT	FIN	Weld Completion			50 %			Acceptable						

Totals per DWG	**90853**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,06 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,06 m**	**10 Nr. Welds**
		Accepted	**3,06 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
18/90854/1/CWGSCF003	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000183		Acceptable				05-05-2025		
19/90854/1/CWGSCF003	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000181		Acceptable				05-05-2025		
20/90854/1/CWGSCF003	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000184		Acceptable				05-05-2025		
15/90854/1/CWGSCF005	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000185		Acceptable				05-05-2025		
16/90854/1/CWGSCF005	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**9,50 mm**	**1/2V**	**0,330 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0222 02	BS	50 %	000182		Acceptable				05-05-2025		
17/90854/1/CWGSCF005	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**T**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0223 02	BS	50 %	000186		Acceptable				05-05-2025		
26/90854/1/CWGSCF006	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000187		Acceptable				05-05-2025		
28/90854/1/CWGSCF006	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000188		Acceptable				05-05-2025		

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline ST Structure

Order Number CW-I-WP4-2023-05
ITEM GRILLAGE AND SEAFASTENING

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE	
23/90854/1/CWGSCF007	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000189		Acceptable				05-05-2025			
25/90854/1/CWGSCF007	**0**	**28-04-2025**	**25**	**DM07**			**HEA**	**340,00 mm**	**16,50 mm**	**1/2V**	**0,300 m**	**M**	**C.S.**	**2A**	**FCAW**	**BW**	**05-05-2025**
III	UT	FIN	Weld Completion		IDL-QCI-UT 0215 04	BS	50 %	000190		Acceptable				05-05-2025			

Totals per DWG	**90854**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**
		Erection	**3,06 m**	**10 Nr. Welds**
		Offshore	**0,00 m**	**0 Nr. Welds**
		Performed	**3,06 m**	**10 Nr. Welds**
		Accepted	**3,06 m**	**10 Nr. Welds**
		Repaired	**0,00 m**	**0 Nr. Welds**
Totals by Discipline		**Prefabrication**	**1647,60 m**	**1795 Nr. Welds**
		Erection	**1202,15 m**	**3086 Nr. Welds**
		Offshore	**10,04 m**	**4 Nr. Welds**
		Performed	**2849,75 m**	**4881 Nr. Welds**
		Accepted	**2849,75 m**	**4881 Nr. Welds**
		Repaired	**28,74 m**	**46 Nr. Welds**
Totals by Project		**Prefabrication**	**1647,60 m**	**1795 Nr. Welds**
		Erection	**1202,15 m**	**3086 Nr. Welds**
		Offshore	**10,04 m**	**4 Nr. Welds**
		Performed	**2849,75 m**	**4881 Nr. Welds**
		Accepted	**2849,75 m**	**4881 Nr. Welds**
		Repaired	**28,74 m**	**46 Nr. Welds**

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	56929856695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001239	1	123A90-FDL-ST-DD90251/ 1	CWUSB033	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001240	6	123A90-FDL-ST-DD90251/ 1	CWUSB033	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001236	3	123A90-FDL-ST-DD90171/ 1	CWUSB061	160,000 MM	15,00	2A	FCAW	0.002 Mt	A
001237	3	123A90-FDL-ST-DD90164/ 1	CWUSB003	300,000 MM	15,00	2A	FCAW	0.300 Mt	A
001238	3	123A90-FDL-ST-DD90167/ 1	CWUSB023	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001231	1	123A90-FDL-ST-DD90251/ 1	CWUSB022	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001232	6	123A90-FDL-ST-DD90251/ 1	CWUSB022	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001233	1	123A90-FDL-ST-DD90251/ 1	CWUSB036	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001234	6	123A90-FDL-ST-DD90251/ 1	CWUSB036	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001235	1	123A90-FDL-ST-DD90251/ 1	CWUSB014	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Place temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001230	3	123A90-FDL-ST-DD90164/ 1	CWUSB004	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Comandini Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL Snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001228	1	123A90-FDL-ST-DD90199/ 1	CWUPG015	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
001229	6	123A90-FDL-ST-DD90199/ 1	CWUPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001226	5	123A90-FDL-ST-DD90199/ 1	CWUPG015	300,000 MM	25,00	2A	FCAW	0.300 MT	A
001227	10	123A90-FDL-ST-DD90199/ 1	CWUPG016	300,000 MM	25,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001225	4	123A90-FDL-ST-DD90251/ 1	CWUSB004	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

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Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

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COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001224	1	123A90-FDL-ST-DD00251/ 1	CWUSB004	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

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123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001221	3	123A90-FDL-ST-DD90251/ 1	CWUSB004	642,000 MM	15,00	2A	FCAW	0.645 Mt	A
001222	6	123A90-FDL-ST-DD90251/ 1	CWUSB061	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
001223	7	123A90-FDL-ST-DD90251/ 1	CWUSB148	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano		ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001220	2	123A90-FDL-ST-DD90251/ 1	CWUSB004	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001219	1	123A90-FDL-ST-DD90251/ 1	CWUSB038	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001218	6	123A90-FDL-ST-DD90251/ 1	CWUSB038	160,000 MM	15,00	2A	FCAW	0.160 MI	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - 19609712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001217	1	123A90-FDL-ST-DD90251/ 1	CWUSB023	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001214	7	123A90-FDL-ST-DD90251/ 1	CWUSB063	160,000 MM	15,00	2A	FCAW	0.160 MT	A
001215	3	123A90-FDL-ST-DD90251/ 1	CWUSB023	322,000 MM	10,00	2A	FCAW	0.650 MT	A
001216	4	123A90-FDL-ST-DD90251/ 1	CWUSB023	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001213	1	123A90-FDL-ST-DD90251/ 1	CWUSB063	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001211	1	123A90-FDL-ST-DD90251/ 1	CWUSB029	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001212	4	123A90-FDL-ST-DD90251/ 1	CWUSB029	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001209	1	123A90-FDL-ST-DD90251/ 1	CWUSB148	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001210	1	123A90-FDL-ST-DD90251/ 1	CWUSB003	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001207	3	123A90-FDL-ST-DD90251/ 1	CWUSB003	642,000 MM	15,00	2A	FCAW	0.645 Mt	A
001208	4	123A90-FDL-ST-DD90251/ 1	CWUSB003	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001206	2	123A90-FDL-ST-DD90251/ 1	CWUSB003	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Place temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001205	3	123A90-FDL-ST-DD90314/ 1	CWUTB097	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001204	4	123A90-FDL-ST-DD90252/ 1	CWUSB115	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001199	29	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A
001200	26	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A
001201	27	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A
001202	28	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A
001203	30	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001198	25	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001193	1	123A90-FDL-ST-DD90253/ 1	CWUSB110	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001194	5	123A90-FDL-ST-DD90253/ 1	CWUSB110	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001195	1	123A90-FDL-ST-DD90253/ 1	CWUSB112	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001196	5	123A90-FDL-ST-DD90253/ 1	CWUSB112	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001197	6	123A90-FDL-ST-DD90252/ 1	CWUSB084	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001189	1	123A90-FDL-ST-DD90253/ 1	CWUSB173	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001190	3	123A90-FDL-ST-DD90253/ 1	CWUSB173	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001191	4	123A90-FDL-ST-DD90253/ 1	CWUSB173	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001192	6	123A90-FDL-ST-DD90253/ 1	CWUSB173	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001188	1	123A90-FDL-ST-DD90252/ 1	CWUSB084	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001184	4	123A90-FDL-ST-DD90253/ 1	CWUSB133	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001185	1	123A90-FDL-ST-DD90253/ 1	CWUSB133	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001186	1	123A90-FDL-ST-DD90253/ 1	CWUSB115	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001187	3	123A90-FDL-ST-DD90253/ 1	CWUSB115	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001182	5	123A90-FDL-ST-DD90253/ 1	CWUSB113	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001183	1	123A90-FDL-ST-DD90253/ 1	CWUSB113	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001180	21	123A90-FDL-ST-DD90092/ 1	CWUPG021	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
001181	22	123A90-FDL-ST-DD90092/ 1	CWUPG021	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001178	19	123A90-FDL-ST-DD90092/ 1	CWUPG021	300,000 MM	25,00	2A	FCAW	0.300 MI	A
001179	20	123A90-FDL-ST-DD90092/ 1	CWUPG021	300,000 MM	25,00	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore Operator: Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000998	6	123A90-FDL-ST-DD90253/ 1	CWUSB174	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000806	5	123A90-FDL-ST-DD90201/ 1	CWUPG004	920,000 MM	20,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000803	2	123A90-FDL-ST-DD90198/ 1	CWUPG027	920,000 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morando Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001030	8	123A90-FDL-ST-DD90210/ 1	CWUSB079	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001050	6	123A90-FDL-ST-DD90253/ 1	CWUSB187	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001072	4	123A90-FDL-ST-DD90313/ 1	CWUTB179	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001084	4	123A90-FDL-ST-DD90251/ 1	CWUSB024	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001103	7	123A90-FDL-ST-DD90251/ 1	CWUSB080	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	62°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	70.5°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000422	2	123A90-FDL-ST-DD90203/ 1	CWBR023	406,400 MM	12,70	2A	FCAW	1.518 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000422	Pag 2 di 2
		Data/date: 05/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90203**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

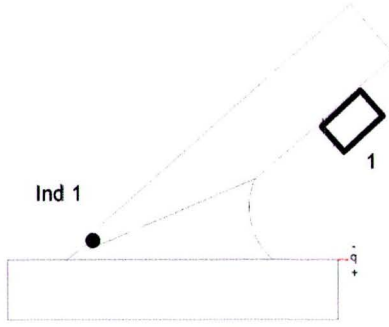
4 ☐

5 ☐

6 ☐

7 ☐

90203/1/CWBR023/2





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
N	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA N Flaw distance from N	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	0÷5 dB	/	210	13	/	0÷2	/	/	0	N	46÷52	1	R	70.5°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc MORANDI MASSIMILIANO	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	9

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
GE	USM GO	09122034	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
T-AC-3	100	I.I.W.-V1-V2	SDH 3mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
PRONDT	178220	4	3,5x10	0°	0	0	0	12	/	LONG
PRONDT	183412	2	14x14	45°	44	11	48	6	3	SHEAR
PRONDT	183512	2	14x14	60°	59	16	46	6	3	SHEAR
PRONDT	183614	2	14x14	70°	69	15	53	6	3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001173	23	123A90-FDL-ST-DD90353/ 1	CWULT004	700,000 MM	35,00	1D	GMAW+SAW	0.330 Mt	A
001174	24	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	1D	GMAW+SAW	0.333 Mt	A
001175	24	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	1D	GMAW+SAW	0.333 Mt	A
001176	24	123A90-FDL-ST-DD90353/ 1	CWULT003	700,000 MM	35,00	1D	GMAW+SAW	0.333 Mt	A
001177	24	123A90-FDL-ST-DD90353/ 1	CWULT004	700,000 MM	35,00	1D	GMAW+SAW	0.333 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
ANTARES CONTROLLI Righetto Davide II Liv. SNT-TC1A / ISO 9712 Company: Antares Controlli Operator: Righetto Davide	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	9

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
GE	USM GO	09122034	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
T-AC-3	100	I.I.W.-V1-V2	SDH 3mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
PRONDT	178220	4	3,5x10	0°	0	0	0	12	/	LONG
PRONDT	183412	2	14x14	45°	44	11	48	6	3	SHEAR
PRONDT	183512	2	14x14	60°	59	16	46	6	3	SHEAR
PRONDT	183614	2	14x14	70°	69	15	53	6	3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001167	22	123A90-FDL-ST-DD90353/ 1	CWULT002	820,000 MM	40,00	1D	GMAW+SAW	1.109 Mt	A
001168	22	123A90-FDL-ST-DD90353/ 1	CWULT003	820,000 MM	40,00	1D	GMAW+SAW	1.109 Mt	A
001169	22	123A90-FDL-ST-DD90353/ 1	CWULT004	820,000 MM	40,00	1D	GMAW+SAW	1.110 Mt	A
001170	23	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	1D	GMAW+SAW	0.333 Mt	A
001171	23	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	1D	GMAW+SAW	0.333 Mt	A
001172	23	123A90-FDL-ST-DD90353/ 1	CWULT003	700,000 MM	35,00	1D	GMAW+SAW	0.334 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
ANTARES CONTROLLI Company: Antares Controlli Righetto Davide II Liv. SNT-TC1A / ISO 9712 Operator: Righetto Davide	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	9

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
GE	USM GO	09122034	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
T-AC-3	100	I.I.W.-V1-V2	SDH 3mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
PRONDT	178220	4	3,5x10	0°	0	0	0	12	/	LONG
PRONDT	183412	2	14x14	45°	44	11	48	6	3	SHEAR
PRONDT	183512	2	14x14	60°	59	16	46	6	3	SHEAR
PRONDT	183614	2	14x14	70°	69	15	53	6	3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001166	22	123A90-FDL-ST-DD90353/ 1	CWULT001	820,000 MM	40,00	1D	GMAW+SAW	1.109 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: Antares Controlli Operator: Righetto Davide	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ANTARES CONTROLLI
Righetto Davide
II° Liv. SNT-TC1A/ISO 9712

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001165	6	123A90-FDL-ST-DD90202/ 1	CWUPG028	400,000 MM	40,00	2A	FCAW	0.350 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001164	1	123A90-FDL-ST-DD90198/ 1	CWUPG023	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001163	5	123A90-FDL-ST-DD90200/ 1	CWUPG009	958,500 MM	15,00	2A	FCAW	0.340 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Name: Morano Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001162	1	123A90-FDL-ST-DD90200/ 1	CWUPG009	400,000 MM	25,00	2A	FCAW	0.340 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001160	31	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A
001161	32	123A90-FDL-ST-DD90092/ 1	CWUPG021	700,000 MM	30,00	2A	FCAW	0.501 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001155	4	123A90-FDL-ST-DD90252/ 1	CWUSB116	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001156	1	123A90-FDL-ST-DD90253/ 1	CWUSB116	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001157	3	123A90-FDL-ST-DD90253/ 1	CWUSB132	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001158	4	123A90-FDL-ST-DD90253/ 1	CWUSB132	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001159	6	123A90-FDL-ST-DD90253/ 1	CWUSB132	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001151	1	123A90-FDL-ST-DD90253/ 1	CWUSB177	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001152	5	123A90-FDL-ST-DD90253/ 1	CWUSB177	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001153	1	123A90-FDL-ST-DD90253/ 1	CWUSB109	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001154	5	123A90-FDL-ST-DD90253/ 1	CWUSB109	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001145	1	123A90-FDL-ST-DD90253/ 1	CWUSB106	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001146	5	123A90-FDL-ST-DD90253/ 1	CWUSB106	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001147	1	123A90-FDL-ST-DD90253/ 1	CWUSB107	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001148	5	123A90-FDL-ST-DD90253/ 1	CWUSB107	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001149	1	123A90-FDL-ST-DD90253/ 1	CWUSB108	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001150	5	123A90-FDL-ST-DD90253/ 1	CWUSB108	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001139	1	123A90-FDL-ST-DD90252/ 1	CWUSB126	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
001140	6	123A90-FDL-ST-DD90252/ 1	CWUSB126	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
001141	1	123A90-FDL-ST-DD90252/ 1	CWUSB125	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
001142	6	123A90-FDL-ST-DD90252/ 1	CWUSB125	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
001143	1	123A90-FDL-ST-DD90252/ 1	CWUSB099	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001144	6	123A90-FDL-ST-DD90252/ 1	CWUSB099	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001135	1	123A90-FDL-ST-DD90253/ 1	CWUSB131	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001136	3	123A90-FDL-ST-DD90253/ 1	CWUSB131	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001137	4	123A90-FDL-ST-DD90253/ 1	CWUSB131	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001138	6	123A90-FDL-ST-DD90253/ 1	CWUSB131	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO C'ND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001130	3	123A90-FDL-ST-DD90315/ 1	CWUTB153	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001131	3	123A90-FDL-ST-DD90315/ 1	CWUTB155	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001132	3	123A90-FDL-ST-DD90315/ 1	CWUTB159	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001133	3	123A90-FDL-ST-DD90315/ 1	CWUTB157	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001134	3	123A90-FDL-ST-DD90314/ 1	CWUTB151	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001129	1	123A90-FDL-ST-DD90253/ 1	CWUSB132	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	61°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	72°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001128	1	123A90-FDL-ST-DD90255/ 1	CWUSB156	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	CONTROL snc ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001122	4	123A90-FDL-ST-DD90252/ 1	CWUSB041	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
001123	1	123A90-FDL-ST-DD90252/ 1	CWUSB086	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
001124	6	123A90-FDL-ST-DD90252/ 1	CWUSB086	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
001125	1	123A90-FDL-ST-DD90254/ 1	CWUSB153	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001126	7	123A90-FDL-ST-DD90254/ 1	CWUSB151	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001127	1	123A90-FDL-ST-DD90255/ 1	CWUSB155	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001121	1	123A90-FDL-ST-DD90252/ 1	CWUSB041	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Place temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001120	10	123A90-FDL-ST-DD90202/ 1	CWUPG012	300,000 MM	25,00	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL s.r.o.	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-04-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	61°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	72°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001119	1	123A90-FDL-ST-DD90251/ 1	CWUSB026	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	61°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	72°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001118	6	123A90-FDL-ST-DD90202/ 1	CWUPG011	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	12	42.10	+6	+2	SHEAR
GE	52414	2	14x14	60°	61°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001116	6	123A90-FDL-ST-DD90201/ 1	CWUPG029	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
001117	10	123A90-FDL-ST-DD90201/ 1	CWUPG029	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001115	3	123A90-FDL-ST-DD90210/ 1	CWUSB080	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001114	1	123A90-FDL-ST-DD90251/ 1	CWUSB082	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6+	2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001113	5	123A90-FDL-ST-DD90251/ 1	CWUSB067	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001112	1	123A90-FDL-ST-DD90251/ 1	CWUSB067	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001111	4	123A90-FDL-ST-DD90251/ 1	CWUSB030	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL s.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001110	3	123A90-FDL-ST-DD90251/ 1	CWUSB030	642,000 MM	15,00	2A	FCAW	0.645 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001109	2	123A90-FDL-ST-DD90251/ 1	CWUSB030	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+1	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001108	1	123A90-FDL-ST-DD90251/ 1	CWUSB030	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001104	1	123A90-FDL-ST-DD90251/ 1	CWUSB127	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001105	3	123A90-FDL-ST-DD90251/ 1	CWUSB127	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001106	4	123A90-FDL-ST-DD90251/ 1	CWUSB127	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001107	6	123A90-FDL-ST-DD90251/ 1	CWUSB127	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001103	7	123A90-FDL-ST-DD90251/ 1	CWUSB080	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001099	1	123A90-FDL-ST-DD90251/ 1	CWUSB122	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001100	4	123A90-FDL-ST-DD90251/ 1	CWUSB122	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001101	6	123A90-FDL-ST-DD90251/ 1	CWUSB122	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001102	3	123A90-FDL-ST-DD90251/ 1	CWUSB122	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001093	4	123A90-FDL-ST-DD90251/ 1	CWUSB055	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001094	6	123A90-FDL-ST-DD90251/ 1	CWUSB055	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001095	1	123A90-FDL-ST-DD90251/ 1	CWUSB120	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001096	3	123A90-FDL-ST-DD90251/ 1	CWUSB120	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001097	4	123A90-FDL-ST-DD90251/ 1	CWUSB120	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001098	6	123A90-FDL-ST-DD90251/ 1	CWUSB120	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001087	1	123A90-FDL-ST-DD90251/ 1	CWUSB051	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001088	3	123A90-FDL-ST-DD90251/ 1	CWUSB051	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001089	4	123A90-FDL-ST-DD90251/ 1	CWUSB051	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001090	6	123A90-FDL-ST-DD90251/ 1	CWUSB051	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001091	1	123A90-FDL-ST-DD90251/ 1	CWUSB055	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001092	3	123A90-FDL-ST-DD90251/ 1	CWUSB055	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001085	3	123A90-FDL-ST-DD90314/ 1	CWUTB103	240,000 MM	9,80	2A	FCAW	0.041 Mt	A
001086	1	123A90-FDL-ST-DD90314/ 1	CWUTB105	240,000 MM	9,80	2A	FCAW	0.041 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001084	4	123A90-FDL-ST-DD90251/ 1	CWUSB024	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001083	3	123A90-FDL-ST-DD90251/ 1	CWUSB024	322,000 MM	10,00	2A	FCAW	0.650 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001079	6	123A90-FDL-ST-DD90313/ 1	CWUTB181	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001080	1	123A90-FDL-ST-DD90313/ 1	CWUTB182	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001081	3	123A90-FDL-ST-DD90313/ 1	CWUTB182	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001082	6	123A90-FDL-ST-DD90313/ 1	CWUTB182	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001073	6	123A90-FDL-ST-DD90313/ 1	CWUTB179	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001074	1	123A90-FDL-ST-DD90313/ 1	CWUTB180	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001075	3	123A90-FDL-ST-DD90313/ 1	CWUTB180	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001076	1	123A90-FDL-ST-DD90313/ 1	CWUTB181	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001077	3	123A90-FDL-ST-DD90313/ 1	CWUTB181	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001078	4	123A90-FDL-ST-DD90313/ 1	CWUTB181	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL SRLC	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001072	4	123A90-FDL-ST-DD90313/ 1	CWUTB179	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001068	5	123A90-FDL-ST-DD90251/ 1	CWUSB066	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001069	7	123A90-FDL-ST-DD90251/ 1	CWUSB066	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001070	1	123A90-FDL-ST-DD90313/ 1	CWUTB179	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001071	3	123A90-FDL-ST-DD90313/ 1	CWUTB179	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001067	3	123A90-FDL-ST-DD90169/ 1	CWUSB039	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001065	4	123A90-FDL-ST-DD90251/ 1	CWUSB048	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001066	1	123A90-FDL-ST-DD90251/ 1	CWUSB066	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001063	1	123A90-FDL-ST-DD90251/ 1	CWUSB048	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001064	3	123A90-FDL-ST-DD90251/ 1	CWUSB048	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001061	3	123A90-FDL-ST-DD90170/ 1	CWUSB059	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
001062	3	123A90-FDL-ST-DD90168/ 1	CWUSB024	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001060	1	123A90-FDL-ST-DD90202/ 1	CWUPG028	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001059	1	123A90-FDL-ST-DD90251/ 1	CWUSB079	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001054	1	123A90-FDL-ST-DD90253/ 1	CWUSB187	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001055	3	123A90-FDL-ST-DD90253/ 1	CWUSB187	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001056	4	123A90-FDL-ST-DD90253/ 1	CWUSB187	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001057	1	123A90-FDL-ST-DD90252/ 1	CWUSB044	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001058	4	123A90-FDL-ST-DD90252/ 1	CWUSB044	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001053	3	123A90-FDL-ST-DD90168/ 1	CWUSB030	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001052	6	123A90-FDL-ST-DD90251/ 1	CWUSB008	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001051	1	123A90-FDL-ST-DD90251/ 1	CWUSB008	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001050	6	123A90-FDL-ST-DD90253/ 1	CWUSB187	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001048	1	123A90-FDL-ST-DD90251/ 1	CWUSB017	330,000 MM	11,50	2A	FCAW	0.080 Mt	A
001049	1	123A90-FDL-ST-DD90251/ 1	CWUSB080	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001046	3	123A90-FDL-ST-DD90251/ 1	CWUSB012	312,000 MM	10,00	2A	FCAW	0.630 Mt	A
001047	4	123A90-FDL-ST-DD90251/ 1	CWUSB012	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001045	1	123A90-FDL-ST-DD90251/ 1	CWUSB012	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001043	7	123A90-FDL-ST-DD90251/ 1	CWUSB082	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
001044	7	123A90-FDL-ST-DD90251/ 1	CWUSB079	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001042	5	123A90-FDL-ST-DD90252/ 1	CWUSB002	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001041	1	123A90-FDL-ST-DD90251/ 1	CWUSB078	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001039	7	123A90-FDL-ST-DD90251/ 1	CWUSB078	300,000 MM	15,00	2A	FCAW	0.300 Mt	A
001040	6	123A90-FDL-ST-DD90251/ 1	CWUSB039	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001037	1	123A90-FDL-ST-DD90314/ 1	CWUTB152	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001038	1	123A90-FDL-ST-DD90314/ 1	CWUTB171	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001031	1	123A90-FDL-ST-DD90251/ 1	CWUSB024	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001032	1	123A90-FDL-ST-DD90251/ 1	CWUSB039	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001033	1	123A90-FDL-ST-DD90315/ 1	CWUTB154	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001034	1	123A90-FDL-ST-DD90315/ 1	CWUTB156	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001035	1	123A90-FDL-ST-DD90315/ 1	CWUTB158	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001036	1	123A90-FDL-ST-DD90314/ 1	CWUTB150	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001030	8	123A90-FDL-ST-DD90210/ 1	CWUSB079	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001029	7	123A90-FDL-ST-DD90210/ 1	CWUSB079	340,000 MM	9,50	2A	FCAW	0.243 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001028	6	123A90-FDL-ST-DD90210/ 1	CWUSB079	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001027	3	123A90-FDL-ST-DD90210/ 1	CWUSB079	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comaschini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001025	6	123A90-FDL-ST-DD90210/ 1	CWUSB078	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001026	8	123A90-FDL-ST-DD90210/ 1	CWUSB078	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001024	3	123A90-FDL-ST-DD90210/ 1	CWUSB078	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Dumping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001018	1	123A90-FDL-ST-DD90251/ 1	CWUSB015	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001019	3	123A90-FDL-ST-DD90251/ 1	CWUSB015	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001020	1	123A90-FDL-ST-DD90251/ 1	CWUSB028	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001021	3	123A90-FDL-ST-DD90251/ 1	CWUSB028	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001022	4	123A90-FDL-ST-DD90251/ 1	CWUSB028	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001023	6	123A90-FDL-ST-DD90251/ 1	CWUSB028	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001017	7	123A90-FDL-ST-DD90219/ 1	CWUSB148	340,000 MM	9,50	2A	FCAW	0.243 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore II Level NDT Operatore: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001016	8	123A90-FDL-ST-DD90219/ 1	CWUSB148	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001015	3	123A90-FDL-ST-DD90209/ 1	CWUSB077	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore Operator: Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001014	6	123A90-FDL-ST-DD90209/ 1	CWUSB077	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore Operator: Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001013	7	123A90-FDL-ST-DD90255/ 1	CWUSB156	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore II Level NDT Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001011	10	123A90-FDL-ST-DD90255/ 1	CWUSB183	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001012	12	123A90-FDL-ST-DD90255/ 1	CWUSB183	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore II Level NDT Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001010	1	123A90-FDL-ST-DD90255/ 1	CWUSB185	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore II Level NDT Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001008	10	123A90-FDL-ST-DD90255/ 1	CWUSB185	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001009	12	123A90-FDL-ST-DD90255/ 1	CWUSB185	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	72°	11	37.00	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001006	5	123A90-FDL-ST-DD90253/ 1	CWUSB150	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001007	1	123A90-FDL-ST-DD90253/ 1	CWUSB150	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore Operatore Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comanghi Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001005	6	123A90-FDL-ST-DD90251/ 1	CWUSB059	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001004	1	123A90-FDL-ST-DD90251/ 1	CWUSB059	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001003	6	123A90-FDL-ST-DD90251/ 1	CWUSB083	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000999	6	123A90-FDL-ST-DD90251/ 1	CWUSB034	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001000	1	123A90-FDL-ST-DD90251/ 1	CWUSB083	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001001	3	123A90-FDL-ST-DD90251/ 1	CWUSB083	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001002	4	123A90-FDL-ST-DD90251/ 1	CWUSB083	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000998	6	123A90-FDL-ST-DD90253/ 1	CWUSB174	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000997	1	123A90-FDL-ST-DD90251/ 1	CWUSB020	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL SRC	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000996	6	123A90-FDL-ST-DD90251/ 1	CWUSB007	160,000 MM	15,00	2A	FCAW	0.160 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Moranell Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000995	1	123A90-FDL-ST-DD90251/ 1	CWUSB007	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000991	4	123A90-FDL-ST-DD90251/ 1	CWUSB020	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000992	6	123A90-FDL-ST-DD90251/ 1	CWUSB020	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000993	1	123A90-FDL-ST-DD90251/ 1	CWUSB032	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000994	3	123A90-FDL-ST-DD90251/ 1	CWUSB032	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL s.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000985	4	123A90-FDL-ST-DD90251/ 1	CWUSB032	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000986	6	123A90-FDL-ST-DD90251/ 1	CWUSB032	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000987	1	123A90-FDL-ST-DD90251/ 1	CWUSB034	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000988	3	123A90-FDL-ST-DD90251/ 1	CWUSB034	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000989	4	123A90-FDL-ST-DD90251/ 1	CWUSB034	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000990	3	123A90-FDL-ST-DD90251/ 1	CWUSB020	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712				

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000984	1	123A90-FDL-ST-DD90251/ 1	CWUSB062	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000980	1	123A90-FDL-ST-DD90251/ 1	CWUSB057	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000981	3	123A90-FDL-ST-DD90251/ 1	CWUSB057	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000982	4	123A90-FDL-ST-DD90251/ 1	CWUSB057	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000983	6	123A90-FDL-ST-DD90251/ 1	CWUSB057	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000978	3	123A90-FDL-ST-DD90251/ 1	CWUSB062	312,000 MM	10,00	2A	FCAW	0.630 Mt	A
000979	4	123A90-FDL-ST-DD90251/ 1	CWUSB062	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000973	1	123A90-FDL-ST-DD90251/ 1	CWUSB053	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000974	1	123A90-FDL-ST-DD90251/ 1	CWUSB035	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000975	3	123A90-FDL-ST-DD90251/ 1	CWUSB035	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000976	4	123A90-FDL-ST-DD90251/ 1	CWUSB035	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000977	6	123A90-FDL-ST-DD90251/ 1	CWUSB035	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000972	1	123A90-FDL-ST-DD90251/ 1	CWUSB060	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Moretti Massimiliano CONTROL snC	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000969	3	123A90-FDL-ST-DD90251/ 1	CWUSB053	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000970	4	123A90-FDL-ST-DD90251/ 1	CWUSB053	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000971	6	123A90-FDL-ST-DD90251/ 1	CWUSB053	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000968	1	123A90-FDL-ST-DD90251/ 1	CWUSB064	330,000 MM	11,50	2A	FCAW	0.080 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000967	6	123A90-FDL-ST-DD90251/ 1	CWUSB060	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712				

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000964	5	123A90-FDL-ST-DD90253/ 1	CWUSB149	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000965	1	123A90-FDL-ST-DD90254/ 1	CWUSB152	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000966	1	123A90-FDL-ST-DD90255/ 1	CWUSB184	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000963	10	123A90-FDL-ST-DD90255/ 1	CWUSB186	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Moranti Massimiliano CONTROL SRL	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequeacy (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000961	1	123A90-FDL-ST-DD90252/ 1	CWUSB040	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000962	1	123A90-FDL-ST-DD90255/ 1	CWUSB186	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000960	7	123A90-FDL-ST-DD90252/ 1	CWUSB040	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000955	12	123A90-FDL-ST-DD90255/ 1	CWUSB186	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000956	3	123A90-FDL-ST-DD90253/ 1	CWUSB174	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000957	4	123A90-FDL-ST-DD90253/ 1	CWUSB174	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000958	5	123A90-FDL-ST-DD90252/ 1	CWUSB042	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000959	5	123A90-FDL-ST-DD90252/ 1	CWUSB040	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000953	4	123A90-FDL-ST-DD90253/ 1	CWUSB117	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000954	1	123A90-FDL-ST-DD90253/ 1	CWUSB149	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000951	1	123A90-FDL-ST-DD90253/ 1	CWUSB117	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000952	3	123A90-FDL-ST-DD90253/ 1	CWUSB117	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL s.n.c. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000950	3	123A90-FDL-ST-DD90161/ 1	CWUSB002	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000949	3	123A90-FDL-ST-DD90252/ 1	CWUSB002	483,500 MM	15,00	2A	FCAW	0.485 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000948	2	123A90-FDL-ST-DD90252/ 1	CWUSB002	500,000 MM	12,00	2A	FCAW	0.475 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000947	1	123A90-FDL-ST-DD90252/ 1	CWUSB002	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000942	1	123A90-FDL-ST-DD90252/ 1	CWUSB046	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000943	4	123A90-FDL-ST-DD90252/ 1	CWUSB046	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000944	1	123A90-FDL-ST-DD90252/ 1	CWUSB047	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000945	4	123A90-FDL-ST-DD90252/ 1	CWUSB047	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000946	1	123A90-FDL-ST-DD90253/ 1	CWUSB174	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morano Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+4	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000941	4	123A90-FDL-ST-DD90252/ 1	CWUSB045	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000940	1	123A90-FDL-ST-DD90252/ 1	CWUSB045	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000938	1	123A90-FDL-ST-DD90252/ 1	CWUSB001	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000939	6	123A90-FDL-ST-DD90252/ 1	CWUSB001	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000937	3	123A90-FDL-ST-DD90252/ 1	CWUSB042	483,500 MM	15,00	2A	FCAW	0.485 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000936	2	123A90-FDL-ST-DD90252/ 1	CWUSB042	500,000 MM	12,00	2A	FCAW	0.475 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rolando Massimiliano CONTROL SRL	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

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ULTRASONIC TEST REPORT

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FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000935	4	123A90-FDL-ST-DD90252/ 1	CWUSB042	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000934	1	123A90-FDL-ST-DD90252/ 1	CWUSB042	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000933	4	123A90-FDL-ST-DD90252/ 1	CWUSB002	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000932	3	123A90-FDL-ST-DD90314/ 1	CWUTB108	240,000 MM	9,80	2A	FCAW	0.110 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000930	6	123A90-FDL-ST-DD90199/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000931	10	123A90-FDL-ST-DD90199/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL S.r.l.c	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	71.4°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	62.4°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000929	6	123A90-FDL-ST-DD90202/ 1	CWUPG028	400,000 MM	40,00	2A	FCAW	0.400 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000929	Pag 2 di 2
		Data/date: 17/04/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90202

SCHIZZO - Sketch

Scanning Position

1 ☒ 70-60°

2 ☐

3 ☐

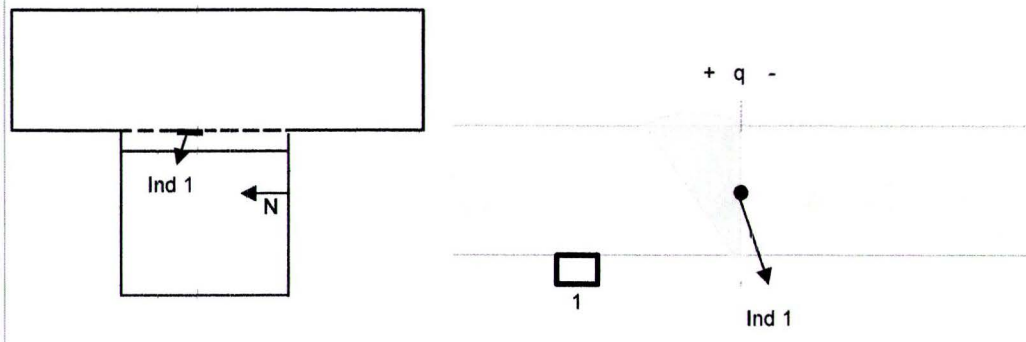
4 ☐

5 ☐

6 ☐

7 ☐

90202/1/CWUPG028/6



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	25	20-23	/	+3	/	/	140	←	47-50	1	R	62°	PLANAR
	-10dB	/	25	20-23	/	+3	/	/	140	←	60-63	1	R	72°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL SRL MORANDI MASSIMILIANO	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	62°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000927	1	123A90-FDL-ST-DD90201/ 1	CWUPG029	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
000928	5	123A90-FDL-ST-DD90201/ 1	CWUPG029	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000925	6	123A90-FDL-ST-DD90199/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000926	10	123A90-FDL-ST-DD90199/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Abrandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT CONTROL snc EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6+	2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000924	3	123A90-FDL-ST-DD90198/ 1	CWUPG023	400,000 MM	40,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	61.8°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	72°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000923	2	123A90-FDL-ST-DD90198/ 1	CWUPG023	920,000 MM	15,00	2A	FCAW	0.920 MM	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	71.4°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	63.5°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000922	1	123A90-FDL-ST-DD90198/ 1	CWUPG023	400,000 MM	40,00	2A	FCAW	0.400 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000922	Pag 2 di 2
		Data/date: 17/04/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	***CROSSWIND***	Disegno / Dwg.	**90198**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70-60°

2 ☐

3 ☐

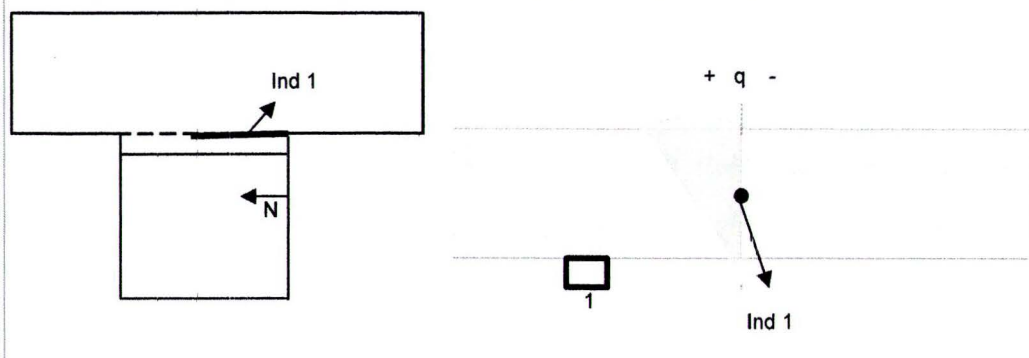
4 ☐

5 ☐

6 ☐

7 ☐

90198/1/CWUPG023/1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-9 dB	/	195	16-19	/	+2	/	/	0	←	36-45	1	R	63.5°	VOLUMETRIC
	-10dB	/	195	16-19	/	+2	/	/	0	←	42-48	1	R	71.4	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL s.r.l.c	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000921	1	123A90-FDL-ST-DD90314/ 1	CWUTB106	240,000 MM	9,80	2A	FCAW	0.041 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	11	42.90	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000920	7	123A90-FDL-ST-DD90254/ 1	CWUSB137	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000915	10	123A90-FDL-ST-DD90254/ 1	CWUSB153	340,000 MM	16,50	2A	FCAW	0.300 MI	A
000916	7	123A90-FDL-ST-DD90254/ 1	CWUSB154	340,000 MM	16,50	2A	FCAW	0.300 MI	A
000917	7	123A90-FDL-ST-DD90255/ 1	CWUSB155	340,000 MM	16,50	2A	FCAW	0.300 MI	A
000918	7	123A90-FDL-ST-DD90254/ 1	CWUSB135	340,000 MM	16,50	2A	FCAW	0.300 MI	A
000919	1	123A90-FDL-ST-DD90254/ 1	CWUSB137	340,000 MM	16,50	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	6+	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000914	7	123A90-FDL-ST-DD90254/ 1	CWUSB152	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical:state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000912	1	123A90-FDL-ST-DD90254/ 1	CWUSB154	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000913	1	123A90-FDL-ST-DD90254/ 1	CWUSB151	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000910	1	123A90-FDL-ST-DD90253/ 1	CWUSB128	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000911	4	123A90-FDL-ST-DD90253/ 1	CWUSB128	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Motandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 16-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000904	1	123A90-FDL-ST-DD90253/ 1	CWUSB129	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000905	3	123A90-FDL-ST-DD90253/ 1	CWUSB129	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000906	4	123A90-FDL-ST-DD90253/ 1	CWUSB129	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000907	6	123A90-FDL-ST-DD90253/ 1	CWUSB129	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000908	4	123A90-FDL-ST-DD90252/ 1	CWUSB114	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000909	1	123A90-FDL-ST-DD90253/ 1	CWUSB114	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000903	1	123A90-FDL-ST-DD90254/ 1	CWUSB135	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRC Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	61.8°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	72°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000902	10	123A90-FDL-ST-DD90201/ 1	CWUPG029	400,000 MM	40,00	2A	FCAW	0.400 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN -ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000902	Pag 2 di 2
		Data/date: 15/04/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90201**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60-45°

2 ☐

3 ☐

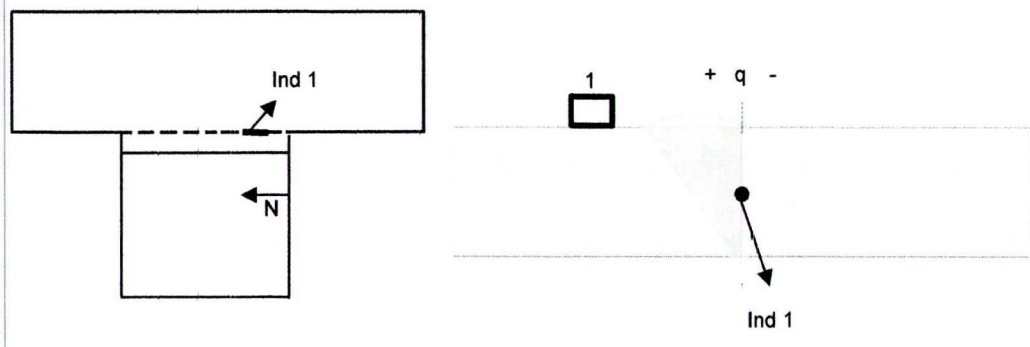
4 ☐

5 ☐

6 ☐

7 ☐

90201/1/CWUPG029/10



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-1 dB	/	60	17-20	/	+2	/	/	80	←	33-37	1	R	61.8°	VOLUMETRIC
	-6 dB	/	60	21	/	+2	/	/	80	←	30	1	R	45°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000901	6	123A90-FDL-ST-DD90201/ 1	CWUPG029	400,000 MM	40,00	2A	FCAW	0.400 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000901	Pag 2 di 2
		Data/date: 15/04/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90201

SCHIZZO - Sketch

Scanning Position

1 ☒ 70-60°

2 ☒ 70-60°

3 ☐

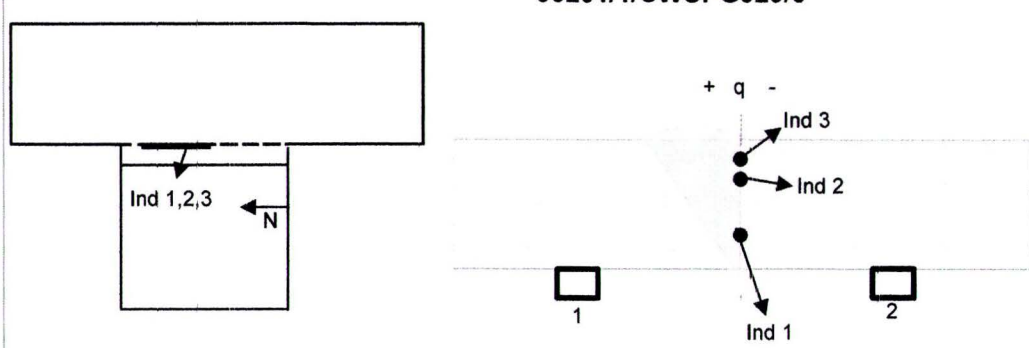
4 ☐

5 ☐

6 ☐

7 ☐

90201/1/CWUPG029/6



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-5 dB	/	928	19-21	/	0-5	/	/	150	←	/	2-1	R	61.8°	VOLUMETRIC
2	-2 dB	/	928	25-27	/	0-10	/	/	185	←	/	1	R	72°	VOLUMETRIC
3	-2 dB	/	928	31-37	/	0-10	/	/	185	←	/	1	R	72°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	68°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	57.7°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000899	10	123A90-FDL-ST-DD90202/ 1	CWUPG028	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
000900	5	123A90-FDL-ST-DD90202/ 1	CWUPG028	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000897	1	123A90-FDL-ST-DD90252/ 1	CWUSB123	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000898	6	123A90-FDL-ST-DD90252/ 1	CWUSB123	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000891	5	123A90-FDL-ST-DD90253/ 1	CWUSB092	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000892	1	123A90-FDL-ST-DD90253/ 1	CWUSB101	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000893	5	123A90-FDL-ST-DD90253/ 1	CWUSB088	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000894	1	123A90-FDL-ST-DD90253/ 1	CWUSB090	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000895	5	123A90-FDL-ST-DD90253/ 1	CWUSB090	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000896	1	123A90-FDL-ST-DD90253/ 1	CWUSB092	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000885	1	123A90-FDL-ST-DD90253/ 1	CWUSB094	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000886	1	123A90-FDL-ST-DD90253/ 1	CWUSB104	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000887	5	123A90-FDL-ST-DD90253/ 1	CWUSB104	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000888	7	123A90-FDL-ST-DD90253/ 1	CWUSB101	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000889	1	123A90-FDL-ST-DD90253/ 1	CWUSB103	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000890	5	123A90-FDL-ST-DD90253/ 1	CWUSB103	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000879	10	123A90-FDL-ST-DD90202/ 1	CWUPG011	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000880	5	123A90-FDL-ST-DD90200/ 1	CWUPG044	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000881	1	123A90-FDL-ST-DD90202/ 1	CWUPG011	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000882	5	123A90-FDL-ST-DD90202/ 1	CWUPG011	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000883	1	123A90-FDL-ST-DD90202/ 1	CWUPG012	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000884	5	123A90-FDL-ST-DD90202/ 1	CWUPG012	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000878	12	123A90-FDL-ST-DD90255/ 1	CWUSB184	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000875	7	123A90-FDL-ST-DD90253/ 1	CWUSB094	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000876	1	123A90-FDL-ST-DD90253/ 1	CWUSB087	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000877	5	123A90-FDL-ST-DD90253/ 1	CWUSB087	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000874	1	123A90-FDL-ST-DD90200/ 1	CWUPG044	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000873	6	123A90-FDL-ST-DD90202/ 1	CWUPG011	300,000 MM	25,00	2A	FCAW	0.300 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000726	Pag 2 di 2
		Data/date: 28/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90199

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°- 70°

2 ☐

3 ☐

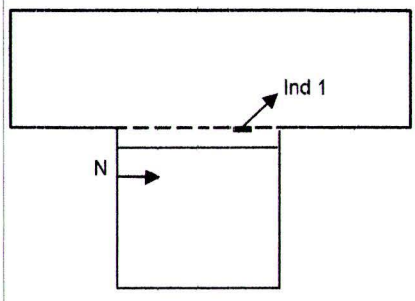
4 ☐

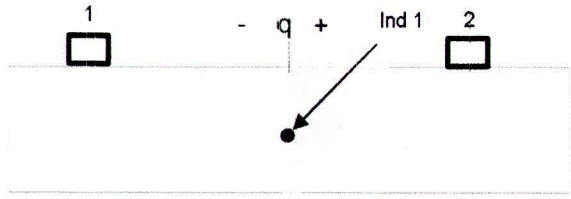
5 ☐

6 ☐

7 ☐

90202/1/CWUPG011/6





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	15	33-34	/	+5	/	/	235	N	45	1	R	45°	VOLUMETRIC
	-2 dB	/	15	34	/	+5	/	/	235	N	62÷64	1	A	57.7°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc MORANDI MASSIMILIANO	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000868	1	123A90-FDL-ST-DD90314/ 1	CWUTB109	240,000 MM	9,80	2A	FCAW	0.110 Mt	A
000869	3	123A90-FDL-ST-DD90314/ 1	CWUTB099	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000870	3	123A90-FDL-ST-DD90314/ 1	CWUTB104	240,000 MM	9,80	2A	FCAW	0.110 Mt	A
000871	1	123A90-FDL-ST-DD90314/ 1	CWUTB098	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000872	3	123A90-FDL-ST-DD90314/ 1	CWUTB107	240,000 MM	9,80	2A	FCAW	0.041 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician/Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000866	1	123A90-FDL-ST-DD90313/ 1	CWUTB033	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000867	3	123A90-FDL-ST-DD90313/ 1	CWUTB033	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000865	1	123A90-FDL-ST-DD90314/ 1	CWUTB096	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000864	3	123A90-FDL-ST-DD90313/ 1	CWUTB005	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000863	5	123A90-FDL-ST-DD90253/ 1	CWUSB102	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Motandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 12-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000861	1	123A90-FDL-ST-DD90253/ 1	CWUSB105	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000862	5	123A90-FDL-ST-DD90253/ 1	CWUSB105	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000855	1	123A90-FDL-ST-DD90253/ 1	CWUSB089	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000856	5	123A90-FDL-ST-DD90253/ 1	CWUSB089	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000857	1	123A90-FDL-ST-DD90253/ 1	CWUSB091	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000858	5	123A90-FDL-ST-DD90253/ 1	CWUSB091	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000859	1	123A90-FDL-ST-DD90253/ 1	CWUSB093	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000860	7	123A90-FDL-ST-DD90253/ 1	CWUSB093	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000849	1	123A90-FDL-ST-DD90252/ 1	CWUSB097	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000850	6	123A90-FDL-ST-DD90252/ 1	CWUSB097	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000851	1	123A90-FDL-ST-DD90252/ 1	CWUSB098	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000852	6	123A90-FDL-ST-DD90252/ 1	CWUSB098	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000853	1	123A90-FDL-ST-DD90252/ 1	CWUSB124	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000854	6	123A90-FDL-ST-DD90252/ 1	CWUSB124	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL SRL	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000843	1	123A90-FDL-ST-DD90253/ 1	CWUSB088	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000844	1	123A90-FDL-ST-DD90253/ 1	CWUSB102	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000845	1	123A90-FDL-ST-DD90252/ 1	CWUSB095	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000846	6	123A90-FDL-ST-DD90252/ 1	CWUSB095	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000847	1	123A90-FDL-ST-DD90252/ 1	CWUSB096	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000848	6	123A90-FDL-ST-DD90252/ 1	CWUSB096	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL SRL	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000841	7	123A90-FDL-ST-DD90200/ 1	CWUPG044	950,000 MM	15,00	2A	FCAW	0.920 MT	A
000842	2	123A90-FDL-ST-DD90200/ 1	CWUPG009	958,500 MM	15,00	2A	FCAW	0.920 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000837	1	123A90-FDL-ST-DD90200/ 1	CWUPG009	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000838	3	123A90-FDL-ST-DD90200/ 1	CWUPG009	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000839	1	123A90-FDL-ST-DD90199/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000840	5	123A90-FDL-ST-DD90199/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000835	1	123A90-FDL-ST-DD90253/ 1	CWUSB134	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000836	7	123A90-FDL-ST-DD90253/ 1	CWUSB134	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000831	1	123A90-FDL-ST-DD90199/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000832	5	123A90-FDL-ST-DD90199/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000833	1	123A90-FDL-ST-DD90201/ 1	CWUPG013	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000834	5	123A90-FDL-ST-DD90201/ 1	CWUPG013	300,000 MM	25,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL s.r.l.	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000825	6	123A90-FDL-ST-DD90199/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000826	10	123A90-FDL-ST-DD90199/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000827	6	123A90-FDL-ST-DD90202/ 1	CWUPG012	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000828	10	123A90-FDL-ST-DD90202/ 1	CWUPG012	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000829	6	123A90-FDL-ST-DD90200/ 1	CWUPG044	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000830	8	123A90-FDL-ST-DD90200/ 1	CWUPG044	400,000 MM	25,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000821	1	123A90-FDL-ST-DD90199/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000822	5	123A90-FDL-ST-DD90199/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000823	6	123A90-FDL-ST-DD90199/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000824	10	123A90-FDL-ST-DD90199/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000820	6	123A90-FDL-ST-DD90199/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.330 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000818	1	123A90-FDL-ST-DD90253/ 1	CWUSB136	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000819	10	123A90-FDL-ST-DD90253/ 1	CWUSB136	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000817	6	123A90-FDL-ST-DD90199/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000816	1	123A90-FDL-ST-DD90199/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.365 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Name: Riccardi Massimiliano CONTROL Srl	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000815	10	123A90-FDL-ST-DD90199/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000813	6	123A90-FDL-ST-DD90200/ 1	CWUPG009	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000814	4	123A90-FDL-ST-DD90200/ 1	CWUPG009	400,000 MM	25,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000812	5	123A90-FDL-ST-DD90198/ 1	CWUPG027	920,000 MM	15,00	2A	FCAW	0.920 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000810	3	123A90-FDL-ST-DD90251/ 1	CWUSB026	642,000 MM	15,00	2A	FCAW	0.645 MT	A
000811	4	123A90-FDL-ST-DD90251/ 1	CWUSB026	300,000 MM	15,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical:state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000809	2	123A90-FDL-ST-DD90251/ 1	CWUSB026	340,000 MM	9,50	2A	FCAW	0.314 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000808	1	123A90-FDL-ST-DD90251/ 1	CWUSB026	340,000 MM	16,50	2A	FCAW	0.300 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000808	Pag 2 di 2
		Data/date: 09/04/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90251

SCHIZZO - Sketch

Scanning Position

1 ☒ 70-60°

2 ☒ 70-60°

3 ☐

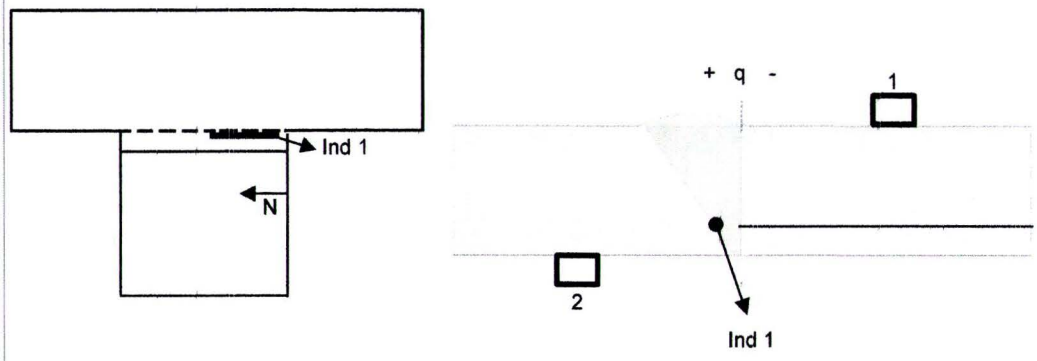
4 ☐

5 ☐

6 ☐

7 ☐

90251/1/CWUSB026/1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-6 dB	/	120	14-15	/	-1	/	/	0	←	20/25	1-2	R	68°	VOLUMETRIC
	-5 dB	/	120	14-15	/	-1	/	/	0	←	14/16	1-2	R	57.7°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000807	5	123A90-FDL-ST-DD90200/ 1	CWUPG009	958,500 MM	15,00	2A	FCAW	0.960 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000806	5	123A90-FDL-ST-DD90201/ 1	CWUPG004	920,000 MM	20,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000804	3	123A90-FDL-ST-DD90198/ 1	CWUPG027	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000805	4	123A90-FDL-ST-DD90201/ 1	CWUPG004	500,000 MM	40,00	2A	FCAW	0.500 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3.5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000803	2	123A90-FDL-ST-DD90198/ 1	CWUPG027	920,000 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000798	1	123A90-FDL-ST-DD90199/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000799	5	123A90-FDL-ST-DD90199/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000800	4	123A90-FDL-ST-DD90198/ 1	CWUPG027	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
000801	6	123A90-FDL-ST-DD90198/ 1	CWUPG027	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
000802	1	123A90-FDL-ST-DD90198/ 1	CWUPG027	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000797	6	123A90-FDL-ST-DD90201/ 1	CWUPG004	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000795	1	123A90-FDL-ST-DD90201/ 1	CWUPG002	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000796	3	123A90-FDL-ST-DD90201/ 1	CWUPG002	500,000 MM	40,00	2A	FCAW	0.500 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000793	1	123A90-FDL-ST-DD90198/ 1	CWUPG017	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000794	3	123A90-FDL-ST-DD90198/ 1	CWUPG017	300,000 MM	25,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000787	3	123A90-FDL-ST-DD90201/ 1	CWUPG022	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000788	2	123A90-FDL-ST-DD90201/ 1	CWUPG002	920,000 MM	20,00	2A	FCAW	0.920 Mt	A
000789	1	123A90-FDL-ST-DD90199/ 1	CWUPG015	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000790	5	123A90-FDL-ST-DD90199/ 1	CWUPG015	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000791	1	123A90-FDL-ST-DD90198/ 1	CWUPG008	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000792	3	123A90-FDL-ST-DD90198/ 1	CWUPG008	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL s.n.c. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	61.8°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	72°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000786	2	123A90-FDL-ST-DD90201/ 1	CWUPG022	950,000 MM	20,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000785	1	123A90-FDL-ST-DD90201/ 1	CWUPG022	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000783	2	123A90-FDL-ST-DD90198/ 1	CWUPG008	960,000 MM	15,00	2A	FCAW	0.950 Mt	A
000784	2	123A90-FDL-ST-DD90198/ 1	CWUPG017	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000782	1	123A90-FDL-ST-DD90314/ 1	CWUTB102	240,000 MM	9,80	2A	FCAW	0.110 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000781	5	123A90-FDL-ST-DD90198/ 1	CWUPG005	960,000 MM	15,00	2A	FCAW	0.960 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000780	2	123A90-FDL-ST-DD90198/ 1	CWUPG006	960,000 MM	15,00	2A	FCAW	0.960 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000776	6	123A90-FDL-ST-DD90201/ 1	CWUPG020	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000777	4	123A90-FDL-ST-DD90198/ 1	CWUPG005	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000778	6	123A90-FDL-ST-DD90198/ 1	CWUPG005	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000779	1	123A90-FDL-ST-DD90198/ 1	CWUPG006	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 00

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000775	5	123A90-FDL-ST-DD90201/ 1	CWUPG020	950,000 MM	20,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-04-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000773	3	123A90-FDL-ST-DD90198/ 1	CWUPG006	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000774	4	123A90-FDL-ST-DD90201/ 1	CWUPG020	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000771	15	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000772	16	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000765	5	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000766	6	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000767	7	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000768	8	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000769	13	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000770	14	123A90-FDL-ST-DD90134/ 1	CWUNO010	323,900 MM	21,44	2A	FCAW	0.220 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000764	4	123A90-FDL-ST-DD90199/ 1	CWUPG003	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000763	6	123A90-FDL-ST-DD90199/ 1	CWUPG003	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000758	4	123A90-FDL-ST-DD90200/ 1	CWUPG018	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000759	5	123A90-FDL-ST-DD90200/ 1	CWUPG018	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000760	6	123A90-FDL-ST-DD90200/ 1	CWUPG018	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000761	6	123A90-FDL-ST-DD90198/ 1	CWUPG006	250,000 MM	25,00	2A	FCAW	0.250 Mt	A
000762	5	123A90-FDL-ST-DD90199/ 1	CWUPG003	920,000 MM	20,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000756	4	123A90-FDL-ST-DD90198/ 1	CWUPG024	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
000757	6	123A90-FDL-ST-DD90198/ 1	CWUPG024	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000755	4	123A90-FDL-ST-DD90198/ 1	CWUPG006	250,000 MM	25,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL SRL	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000754	5	123A90-FDL-ST-DD90198/ 1	CWUPG006	960,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000753	5	123A90-FDL-ST-DD90198/ 1	CWUPG024	920,000 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000751	6	123A90-FDL-ST-DD90383/ 1	CWLTB259	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000752	8	123A90-FDL-ST-DD90383/ 1	CWLTB259	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000750	2	123A90-FDL-ST-DD90198/ 1	CWUPG005	960,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000746	2	123A90-FDL-ST-DD90200/ 1	CWUPG018	950,000 MM	20,00	2A	FCAW	0.950 MT	A
000747	3	123A90-FDL-ST-DD90200/ 1	CWUPG018	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000748	1	123A90-FDL-ST-DD90198/ 1	CWUPG005	250,000 MM	25,00	2A	FCAW	0.250 MT	A
000749	3	123A90-FDL-ST-DD90198/ 1	CWUPG005	250,000 MM	25,00	2A	FCAW	0.250 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000742	3	123A90-FDL-ST-DD90201/ 1	CWUPG020	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000743	1	123A90-FDL-ST-DD90201/ 1	CWUPG020	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000744	2	123A90-FDL-ST-DD90201/ 1	CWUPG020	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000745	1	123A90-FDL-ST-DD90200/ 1	CWUPG018	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 02-04-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000740	5	123A90-FDL-ST-DD90198/ 1	CWUPG023	920,000 MM	15,00	2A	FCAW	0.920 Mt	A
000741	2	123A90-FDL-ST-DD90198/ 1	CWUPG024	920,000 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000736	3	123A90-FDL-ST-DD90198/ 1	CWUPG024	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000737	1	123A90-FDL-ST-DD90198/ 1	CWUPG024	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000738	4	123A90-FDL-ST-DD90198/ 1	CWUPG023	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000739	6	123A90-FDL-ST-DD90198/ 1	CWUPG023	400,000 MM	40,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000733	6	123A90-FDL-ST-DD90233/ 1	CWLSB053	160,000 MM	15,00	2A	FCAW	0.160 MT	A
000734	6	123A90-FDL-ST-DD90233/ 1	CWLSB065	160,000 MM	15,00	2A	FCAW	0.160 MT	A
000735	6	123A90-FDL-ST-DD90233/ 1	CWLSB066	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Molendi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 28-03-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	68°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	57.7°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000732	5	123A90-FDL-ST-DD90202/ 1	CWUPG031	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000729	2	123A90-FDL-ST-DD90199/ 1	CWUPG001	920,000 MM	20,00	2A	FCAW	0.920 Mt	A
000730	1	123A90-FDL-ST-DD90199/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000731	5	123A90-FDL-ST-DD90199/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000727	10	123A90-FDL-ST-DD90199/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000728	1	123A90-FDL-ST-DD90202/ 1	CWUPG031	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-03-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000726	6	123A90-FDL-ST-DD90199/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000726	Pag 2 di 2
		Data/date: 28/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90199

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°- 45°

2 ☐

3 ☐

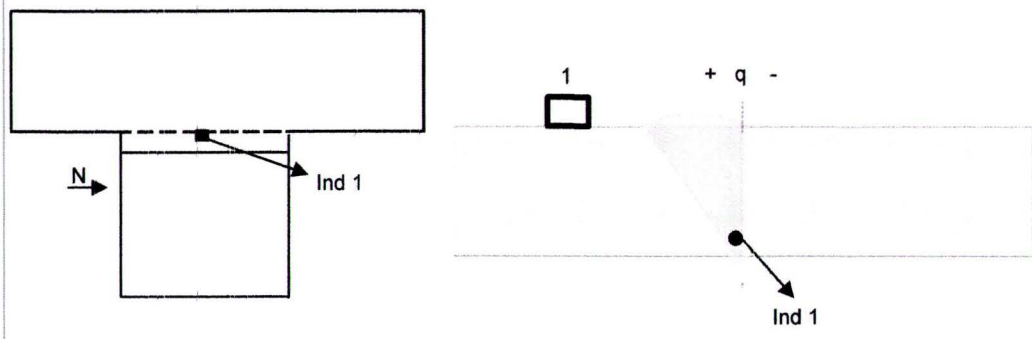
4 ☐

5 ☐

6 ☐

7 ☐

90199/1/CWUPG041/ W6



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	15	33-34	/	+5	/	/	235	N	45	1	R	45°	VOLUMETRIC
	-2 dB	/	15	34	/	+5	/	/	235	N	62÷64	1	R	61.8°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000725	5	123A90-FDL-ST-DD90201/ 1	CWUPG030	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000719	1	123A90-FDL-ST-DD90199/ 1	CWUPG001	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000720	3	123A90-FDL-ST-DD90199/ 1	CWUPG001	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000721	6	123A90-FDL-ST-DD90199/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000722	10	123A90-FDL-ST-DD90199/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000723	1	123A90-FDL-ST-DD90199/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000724	5	123A90-FDL-ST-DD90199/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000718	1	123A90-FDL-ST-DD90247/ 1	CWLTB175	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000716	1	123A90-FDL-ST-DD90234/ 1	CWLSB025	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000717	6	123A90-FDL-ST-DD90234/ 1	CWLSB025	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000715	2	123A90-FDL-ST-DD90285/ 1	CWBR012	355,600 MM	12,70	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000714	2	123A90-FDL-ST-DD90285/ 1	CWBR011	355,600 MM	12,70	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL s.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000713	1	123A90-FDL-ST-DD90245/ 1	CWLTB038	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000712	4	123A90-FDL-ST-DD90233/ 1	CWLSB056	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000711	6	123A90-FDL-ST-DD90234/ 1	CWLSB033	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000710	1	123A90-FDL-ST-DD90233/ 1	CWLSB071	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000708	5	123A90-FDL-ST-DD90198/ 1	CWUPG025	920,000 MM	15,00	2A	FCAW	0.920 Mt	A
000709	2	123A90-FDL-ST-DD90198/ 1	CWUPG026	920,000 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL srl Operator: Morandi Massimiliano	ROSETTI MARINO SPA Romandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	61.8°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000703	1	123A90-FDL-ST-DD90198/ 1	CWUPG026	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000704	1	123A90-FDL-ST-DD90201/ 1	CWUPG030	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000705	3	123A90-FDL-ST-DD90198/ 1	CWUPG026	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000706	4	123A90-FDL-ST-DD90198/ 1	CWUPG025	400,000 MM	40,00	2A	FCAW	0.400 MT	A
000707	6	123A90-FDL-ST-DD90198/ 1	CWUPG025	400,000 MM	40,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000702	6	123A90-FDL-ST-DD90199/ 1	CWUPG019	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - 0309712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000696	6	123A90-FDL-ST-DD90202/ 1	CWUPG014	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000697	10	123A90-FDL-ST-DD90202/ 1	CWUPG014	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000698	6	123A90-FDL-ST-DD90201/ 1	CWUPG013	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000699	10	123A90-FDL-ST-DD90201/ 1	CWUPG013	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000700	4	123A90-FDL-ST-DD90199/ 1	CWUPG019	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000701	5	123A90-FDL-ST-DD90199/ 1	CWUPG019	950,000 MM	20,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000695	1	123A90-FDL-ST-DD90235/ 1	CWLSB109	330,000 MM	11,50	2A	FCAW	0.160 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000694	8	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000693	5	123A90-FDL-ST-DD90198/ 1	CWUPG007	960,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000688	5	123A90-FDL-ST-DD90199/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000689	6	123A90-FDL-ST-DD90199/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000690	5	123A90-FDL-ST-DD90202/ 1	CWUPG014	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000691	4	123A90-FDL-ST-DD90198/ 1	CWUPG007	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000692	6	123A90-FDL-ST-DD90198/ 1	CWUPG007	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator: Morandi Massimiliano	CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000683	6	123A90-FDL-ST-DD90199/ 1	CWUPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000684	10	123A90-FDL-ST-DD90199/ 1	CWUPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000685	1	123A90-FDL-ST-DD90199/ 1	CWUPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000686	5	123A90-FDL-ST-DD90199/ 1	CWUPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000687	1	123A90-FDL-ST-DD90202/ 1	CWUPG014	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company CONTROL Operator Rotondi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	68°	11	42.10	+6	+4	SHEAR
GE	52414	2	14x14	60°	57.7°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000682	5	123A90-FDL-ST-DD90199/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000681	1	123A90-FDL-ST-DD90199/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000681	Pag 2 di 2
		Data/date: 26/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90199

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°- 60°- 45°

2 ☐

3 ☐

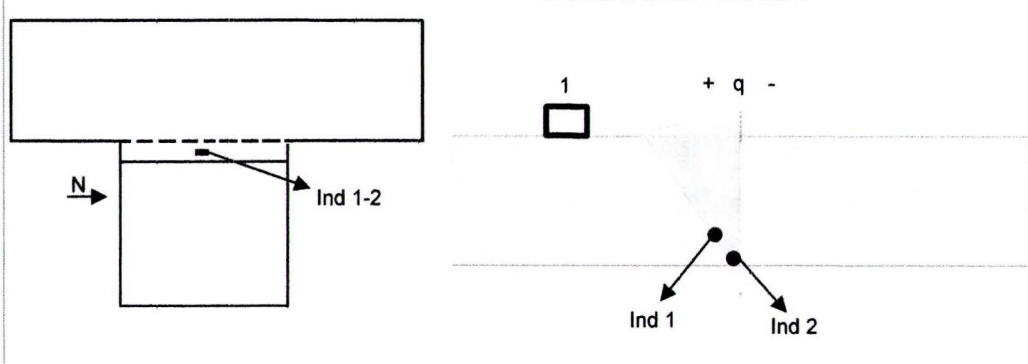
4 ☐

5 ☐

6 ☐

7 ☐

90199/1/CWUPG040/1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	25	27/30	/	0+5	/	/	210	N	73	1	R	68°	VOLUMETRIC
	-2 dB	/	25	27/30	/	0+5	/	/	210	N	56-60	1	R	57.7°	
2	+1 dB	/	15	39	/	0+5	/	/	215	N	54	1	R	45°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000680	10	123A90-FDL-ST-DD90199/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL s.n.c.

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000680	Pag 2 di 2
		Data/date: 26/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90199

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

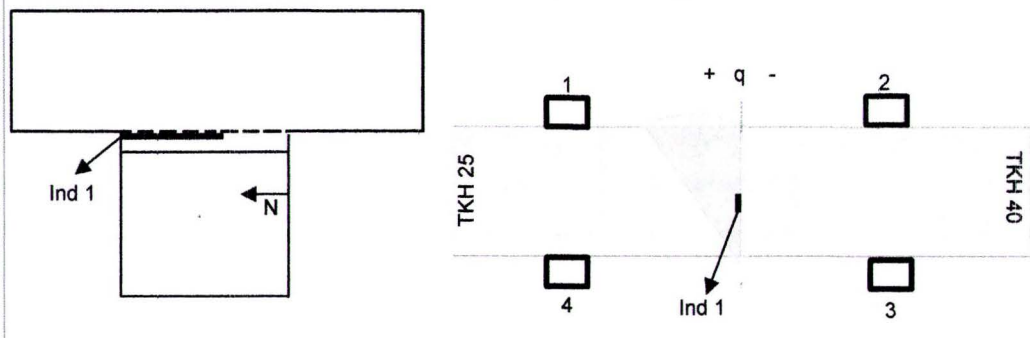
4 ☐

5 ☐

6 ☐

7 ☐

90199/1/CWUPG032/ 10



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
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A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	0-6 dB	/	320	7÷12	/	0÷5	/	/	80	←	21÷29	3	R	68°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc MORANDI MASSIMILIANO	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
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Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
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OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000679	10	123A90-FDL-ST-DD90199/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
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TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000678	6	123A90-FDL-ST-DD90199/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000678	Pag 2 di 2
		Data/date: 26/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90199

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°/ 60°

2 ☒ 70°/ 60°

3 ☐

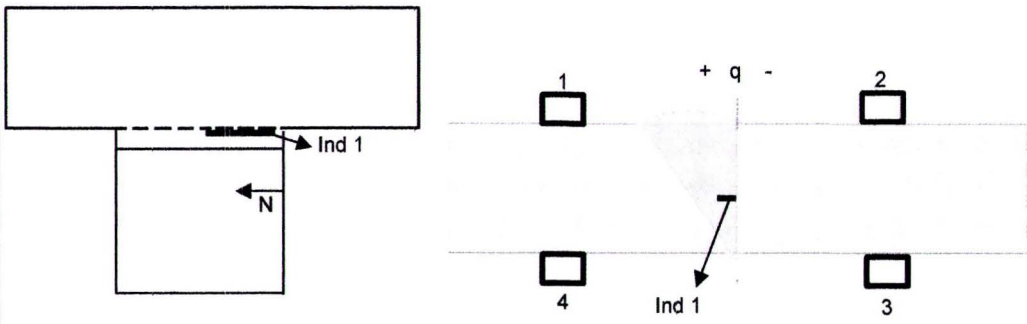
4 ☐

5 ☐

6 ☐

7 ☐

90199/1/CWUPG047/ 6



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	150	8÷10	/	5	/	/	0	←	24/27	3	R	68°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL SOC MORANDI MASSIMILIANO	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000677	1	123A90-FDL-ST-DD90199/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000676	5	123A90-FDL-ST-DD90200/ 1	CWUPG010	958,500 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000674	6	123A90-FDL-ST-DD90200/ 1	CWUPG010	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000675	4	123A90-FDL-ST-DD90200/ 1	CWUPG010	400,000 MM	25,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comancini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000673	2	123A90-FDL-ST-DD90200/ 1	CWUPG045	950,000 MM	15,00	2A	FCAW	0.920 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000671	1	123A90-FDL-ST-DD90200/ 1	CWUPG045	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000672	3	123A90-FDL-ST-DD90200/ 1	CWUPG045	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000669	2	123A90-FDL-ST-DD90203/ 1	CWBR020	406,400 MM	12,70	2A	FCAW	1.477 Mt	A
000670	2	123A90-FDL-ST-DD90203/ 1	CWBR024	406,400 MM	12,70	2A	FCAW	1.518 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000667	2	123A90-FDL-ST-DD90289/ 1	CWBR013	355,600 MM	12,70	2A	FCAW	0.687 Mt	A
000668	2	123A90-FDL-ST-DD90289/ 1	CWBR014	355,600 MM	12,70	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000666	2	123A90-FDL-ST-DD90284/ 1	CWLG004	271,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000665	2	123A90-FDL-ST-DD90284/ 1	CWLG010	323,900 MM	19,05	2A	FCAW	1.017 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000664	2	123A90-FDL-ST-DD90200/ 1	CWUPG010	958,500 MM	15,00	2A	FCAW	0.960 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000663	1	123A90-FDL-ST-DD90200/ 1	CWUPG010	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
IMG (weld ex.)	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000662	3	123A90-FDL-ST-DD90200/ 1	CWUPG010	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+9	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000661	8	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	15,88	2A	FCAW	0.220 MT	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandi Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000661	Pag 2 di 2
		Data/date: 21/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90133**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

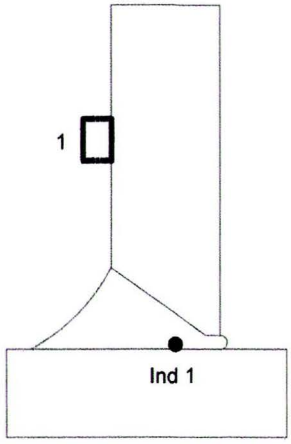
4 ☐

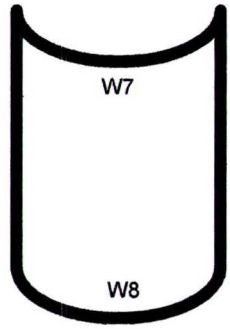
5 ☐

6 ☐

7 ☐

90133/1/CWUNO009/8





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-3/6 dB	/	100	14÷16	/	0	/	/	80	N	42/45	1	R	68°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc MORANDI MASSIMILIANO	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000660	7	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - 0509712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000654	13	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000655	14	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000656	15	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000657	16	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000658	5	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A
000659	6	123A90-FDL-ST-DD90133/ 1	CWUNO009	323,900 MM	21,44	2A	FCAW	0.220 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
IMG (weld ex.)	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000652	5	123A90-FDL-ST-DD90201/ 1	CWUPG021	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000653	6	123A90-FDL-ST-DD90201/ 1	CWUPG021	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000650	2	123A90-FDL-ST-DD90288/ 1	CWBR016	600,000 MM	20,00	2A	FCAW	2.383 Mt	A
000651	2	123A90-FDL-ST-DD90288/ 1	CWBR026	600,000 MM	20,00	2A	FCAW	2.372 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000649	4	123A90-FDL-ST-DD90201/ 1	CWUPG021	300,000 MM	25,00	2A	FCAW	0.300 MR	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000643	6	123A90-FDL-ST-DD90235/ 1	CWLSB098	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000644	1	123A90-FDL-ST-DD90235/ 1	CWLSB104	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000645	3	123A90-FDL-ST-DD90235/ 1	CWLSB104	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000646	4	123A90-FDL-ST-DD90235/ 1	CWLSB104	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000647	1	123A90-FDL-ST-DD90235/ 1	CWLSB098	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000648	4	123A90-FDL-ST-DD90235/ 1	CWLSB098	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000637	1	123A90-FDL-ST-DD90235/ 1	CWLSB113	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000638	4	123A90-FDL-ST-DD90235/ 1	CWLSB113	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000639	6	123A90-FDL-ST-DD90235/ 1	CWLSB113	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000640	1	123A90-FDL-ST-DD90235/ 1	CWLSB105	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000641	4	123A90-FDL-ST-DD90235/ 1	CWLSB105	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000642	6	123A90-FDL-ST-DD90235/ 1	CWLSB105	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000635	1	123A90-FDL-ST-DD90289/ 1	CWLG015	406,400 MM	21,40	2A	FCAW	1.276 Mt	A
000636	1	123A90-FDL-ST-DD90289/ 1	CWLG016	406,400 MM	21,40	2A	FCAW	1.276 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000633	6	123A90-FDL-ST-DD90233/ 1	CWLSB058	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
000634	6	123A90-FDL-ST-DD90233/ 1	CWLSB063	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000631	2	123A90-FDL-ST-DD90181/ 1	CWLPG041	250,000 MM	20,00	2A	FCAW	0.212 Mt	A
000632	7	123A90-FDL-ST-DD90181/ 1	CWLPG040	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SNC Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000630	6	123A90-FDL-ST-DD90235/ 1	CWLSB104	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL s.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000629	2	123A90-FDL-ST-DD90288/ 1	CWLG012	800,000 MM	20,00	1A	GTAW+FCAW	2.542 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000628	2	123A90-FDL-ST-DD90288/ 1	CWLG014	800,000 MM	20,00	1A	GTAW+FCAW	2.532 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000625	8	123A90-FDL-ST-DD90237/ 1	CWLSB213	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000626	1	123A90-FDL-ST-DD90235/ 1	CWLSB202	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000627	8	123A90-FDL-ST-DD90235/ 1	CWLSB202	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000624	1	123A90-FDL-ST-DD90237/ 1	CWLSB213	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000622	4	123A90-FDL-ST-DD90235/ 1	CWLSB112	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000623	6	123A90-FDL-ST-DD90235/ 1	CWLSB112	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	67.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000621	1	123A90-FDL-ST-DD90233/ 1	CWLSB108	330,000 MM	9,50	2A	FCAW	0.011 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level/2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL srl Operator: Morandi Massimiliano	ROSETTI MARINO SPA Romandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000619	1	123A90-FDL-ST-DD90234/ 1	CWLSB116	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000620	6	123A90-FDL-ST-DD90234/ 1	CWLSB116	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000614	6	123A90-FDL-ST-DD90235/ 1	CWLSB092	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000615	4	123A90-FDL-ST-DD90235/ 1	CWLSB092	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000616	1	123A90-FDL-ST-DD90235/ 1	CWLSB106	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000617	6	123A90-FDL-ST-DD90235/ 1	CWLSB106	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000618	1	123A90-FDL-ST-DD90383/ 1	CWLTB236	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000608	1	123A90-FDL-ST-DD90235/ 1	CWLSB110	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000609	1	123A90-FDL-ST-DD90235/ 1	CWLSB052	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000610	3	123A90-FDL-ST-DD90235/ 1	CWLSB052	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000611	3	123A90-FDL-ST-DD90235/ 1	CWLSB109	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000612	4	123A90-FDL-ST-DD90235/ 1	CWLSB109	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000613	1	123A90-FDL-ST-DD90235/ 1	CWLSB092	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000605	2	123A90-FDL-ST-DD90246/ 1	CWLTB031	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000606	3	123A90-FDL-ST-DD90247/ 1	CWLTB049	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000607	3	123A90-FDL-ST-DD90247/ 1	CWLTB155	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000604	4	123A90-FDL-ST-DD90235/ 1	CWLSB091	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000602	1	123A90-FDL-ST-DD90235/ 1	CWLSB091	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000603	3	123A90-FDL-ST-DD90235/ 1	CWLSB091	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL srl Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000600	1	123A90-FDL-ST-DD90384/ 1	CWLSB190	330,000 MM	16,50	2A	FCAW	0.160 Mt	A
000601	10	123A90-FDL-ST-DD90384/ 1	CWLSB190	330,000 MM	16,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000595	1	123A90-FDL-ST-DD90383/ 1	CWLTB233	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000596	1	123A90-FDL-ST-DD90383/ 1	CWLTB234	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000597	1	123A90-FDL-ST-DD90383/ 1	CWLTB237	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000598	1	123A90-FDL-ST-DD90383/ 1	CWLTB232	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000599	4	123A90-FDL-ST-DD90246/ 1	CWLTB004	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	61.5°	10	37.00	+6	+3	SHEAR
GE	5841651821	2	14x14	70°	72.2°	11	39.80	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000593	7	123A90-FDL-ST-DD90105/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000594	8	123A90-FDL-ST-DD90105/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore II Level NDT Operator Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	61.5°	10	37.00	+6	+3	SHEAR
GE	5841651821	2	14x14	70°	72.2°	11	39.80	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000587	5	123A90-FDL-ST-DD90106/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000588	6	123A90-FDL-ST-DD90106/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000589	7	123A90-FDL-ST-DD90106/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000590	8	123A90-FDL-ST-DD90106/ 1	CWUPG039	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000591	5	123A90-FDL-ST-DD90105/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 MT	A
000592	6	123A90-FDL-ST-DD90105/ 1	CWUPG038	500,000 MM	40,00	2A	FCAW	0.500 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL ROSETTI MARINO SPA Randazzo Salvatore Operator: Randazzo Salvatore II Level NDT	Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	10	34.80	+6	+3	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000581	11	123A90-FDL-ST-DD90102/ 1	CWUPG033	406,400 MM	15,90	2A	FCAW	0.592 Mt	A
000582	12	123A90-FDL-ST-DD90102/ 1	CWUPG033	406,400 MM	15,90	2A	FCAW	0.592 Mt	A
000583	11	123A90-FDL-ST-DD90105/ 1	CWUPG038	457,200 MM	19,10	2A	FCAW	0.673 Mt	A
000584	12	123A90-FDL-ST-DD90105/ 1	CWUPG038	457,200 MM	19,10	2A	FCAW	0.673 Mt	A
000585	11	123A90-FDL-ST-DD90106/ 1	CWUPG039	457,200 MM	19,10	2A	FCAW	0.673 Mt	A
000586	12	123A90-FDL-ST-DD90106/ 1	CWUPG039	457,200 MM	19,10	2A	FCAW	0.673 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: COSTEIN Operator: Randazzo Salvatore Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61.5°	10	34.80	+6	+3	SHEAR
GE	5692942285	4	8x9	70°	72.2°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000577	5	123A90-FDL-ST-DD90102/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000578	6	123A90-FDL-ST-DD90102/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000579	7	123A90-FDL-ST-DD90102/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000580	8	123A90-FDL-ST-DD90102/ 1	CWUPG033	400,000 MM	25,00	2A	FCAW	0.400 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Randazzo Salvatore II Level NDT Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	10	34.80	+6	+3	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000575	11	123A90-FDL-ST-DD90147/ 1	CWUPG046	406,400 MM	15,90	2A	FCAW	0.592 Mt	A
000576	12	123A90-FDL-ST-DD90147/ 1	CWUPG046	406,400 MM	15,90	2A	FCAW	0.592 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Randazzo Salvatore II Level NDT Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61.5°	10	34.80	+6	+3	SHEAR
GE	5692942285	4	8x9	70°	72.2°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000572	6	123A90-FDL-ST-DD90147/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000573	7	123A90-FDL-ST-DD90147/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000574	8	123A90-FDL-ST-DD90147/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	61.5°	10	34.80	+6	+3	SHEAR
GE	5692942285	4	8x9	70°	72.2°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000571	5	123A90-FDL-ST-DD90147/ 1	CWUPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore Operatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000569	2	123A90-FDL-ST-DD90233/ 1	CWLSB045	340,000 MM	9,50	2A	FCAW	0.314 Mt	A
000570	2	123A90-FDL-ST-DD90233/ 1	CWLSB047	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operatore Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000568	7	123A90-FDL-ST-DD90233/ 1	CWLSB050	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000566	6	123A90-FDL-ST-DD90114/ 1	CWLSB050	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000567	8	123A90-FDL-ST-DD90114/ 1	CWLSB050	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000565	3	123A90-FDL-ST-DD90114/ 1	CWLSB050	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000563	6	123A90-FDL-ST-DD90234/ 1	CWLSB040	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000564	1	123A90-FDL-ST-DD90233/ 1	CWLSB045	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: I CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000562	1	123A90-FDL-ST-DD90246/ 1	CWLTB156	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000561	1	123A90-FDL-ST-DD90233/ 1	CWLSB050	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000559	1	123A90-FDL-ST-DD90122/ 1	CWLSB115	72,500 MM	12,00	2A	FCAW	0.076 Mt	A
000560	2	123A90-FDL-ST-DD90122/ 1	CWLSB115	72,500 MM	12,00	2A	FCAW	0.076 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000557	3	123A90-FDL-ST-DD90233/ 1	CWLSB045	642,000 MM	15,00	2A	FCAW	0.645 Mt	A
000558	4	123A90-FDL-ST-DD90233/ 1	CWLSB045	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000556	9	123A90-FDL-ST-DD90233/ 1	CWLSB042	300,000 MM	20,00	2A	FCAW	0.002 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical:state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000555	3	123A90-FDL-ST-DD90073/ 1	CWLSB042	300,000 MM	20,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000553	1	123A90-FDL-ST-DD90246/ 1	CWLTB047	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000554	3	123A90-FDL-ST-DD90247/ 1	CWLTB060	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL TECHNOL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000552	1	123A90-FDL-ST-DD90234/ 1	CWLSB040	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Moranci Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical:state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000550	7	123A90-FDL-ST-DD90384/ 1	CWLSB184	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000551	1	123A90-FDL-ST-DD90245/ 1	CWLTB029	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL STIC Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000549	5	123A90-FDL-ST-DD90235/ 1	CWLSB096	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000548	1	123A90-FDL-ST-DD90235/ 1	CWLSB096	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000546	7	123A90-FDL-ST-DD90233/ 1	CWLSB068	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
000547	7	123A90-FDL-ST-DD90233/ 1	CWLSB067	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000541	1	123A90-FDL-ST-DD90233/ 1	CWLSB063	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000542	1	123A90-FDL-ST-DD90233/ 1	CWLSB065	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000543	1	123A90-FDL-ST-DD90233/ 1	CWLSB066	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000544	1	123A90-FDL-ST-DD90233/ 1	CWLSB067	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000545	1	123A90-FDL-ST-DD90233/ 1	CWLSB068	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: A CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000540	7	123A90-FDL-ST-DD90233/ 1	CWLSB062	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000539	1	123A90-FDL-ST-DD90233/ 1	CWLSB062	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000534	3	123A90-FDL-ST-DD90235/ 1	CWLSB084	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000535	1	123A90-FDL-ST-DD90235/ 1	CWLSB085	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000536	6	123A90-FDL-ST-DD90235/ 1	CWLSB085	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000537	1	123A90-FDL-ST-DD90235/ 1	CWLSB083	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000538	6	123A90-FDL-ST-DD90235/ 1	CWLSB083	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000533	1	123A90-FDL-ST-DD90233/ 1	CWLSB051	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN 4SO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000532	7	123A90-FDL-ST-DD90233/ 1	CWLSB051	300,000 MM	15,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Tnk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000531	1	123A90-FDL-ST-DD90233/ 1	CWLSB115	330,000 MM	9,50	2A	FCAW	0.011 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000529	3	123A90-FDL-ST-DD90117/ 1	CWLSB062	160,000 MM	15,00	2A	FCAW	0.160 MT	A
000530	3	123A90-FDL-ST-DD90118/ 1	CWLSB067	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000527	6	123A90-FDL-ST-DD90114/ 1	CWLSB051	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000528	8	123A90-FDL-ST-DD90114/ 1	CWLSB051	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000523	1	123A90-FDL-ST-DD90385/ 1	CWLSB212	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000524	3	123A90-FDL-ST-DD90385/ 1	CWLSB212	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000525	1	123A90-FDL-ST-DD90385/ 1	CWLSB211	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000526	3	123A90-FDL-ST-DD90385/ 1	CWLSB211	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000521	1	123A90-FDL-ST-DD90385/ 1	CWLSB214	340,000 MM	16,50	2A	FCAW	0.300 MI	A
000522	8	123A90-FDL-ST-DD90385/ 1	CWLSB214	340,000 MM	16,50	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL s.r.c. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandini Massimo Level III NDT EN - 4809712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000515	1	123A90-FDL-ST-DD90385/ 1	CWLSB226	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000516	8	123A90-FDL-ST-DD90385/ 1	CWLSB226	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000517	1	123A90-FDL-ST-DD90385/ 1	CWLSB223	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000518	10	123A90-FDL-ST-DD90385/ 1	CWLSB223	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000519	1	123A90-FDL-ST-DD90385/ 1	CWLSB215	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000520	7	123A90-FDL-ST-DD90385/ 1	CWLSB215	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Moranel Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000511	1	123A90-FDL-ST-DD90385/ 1	CWLSB233	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000512	7	123A90-FDL-ST-DD90385/ 1	CWLSB233	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000513	7	123A90-FDL-ST-DD90385/ 1	CWLSB232	330,000 MM	11,50	2A	FCAW	0.160 MT	A
000514	1	123A90-FDL-ST-DD90385/ 1	CWLSB232	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000509	1	123A90-FDL-ST-DD90385/ 1	CWLSB189	330,000 MM	16,50	2A	FCAW	0.160 Mt	A
000510	10	123A90-FDL-ST-DD90385/ 1	CWLSB189	330,000 MM	16,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000508	10	123A90-FDL-ST-DD90384/ 1	CWLSB197	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000507	1	123A90-FDL-ST-DD90384/ 1	CWLSB197	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Nolano Massimiliano	CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000505	1	123A90-FDL-ST-DD90384/ 1	CWLSB196	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000506	4	123A90-FDL-ST-DD90384/ 1	CWLSB196	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL Srlc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000503	1	123A90-FDL-ST-DD90384/ 1	CWLSB195	340,000 MM	16,50	2A	FCAW	0.300 MI	A
000504	8	123A90-FDL-ST-DD90384/ 1	CWLSB195	340,000 MM	16,50	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000502	1	123A90-FDL-ST-DD90384/ 1	CWLSB184	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000501	5	123A90-FDL-ST-DD90384/ 1	CWLSB183	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000500	1	123A90-FDL-ST-DD90384/ 1	CWLSB183	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000496	1	123A90-FDL-ST-DD90384/ 1	CWLSB181	330,000 MM	16,50	2A	FCAW	0.160 MT	A
000497	7	123A90-FDL-ST-DD90384/ 1	CWLSB181	330,000 MM	16,50	2A	FCAW	0.160 MT	A
000498	1	123A90-FDL-ST-DD90384/ 1	CWLSB182	330,000 MM	16,50	2A	FCAW	0.160 MT	A
000499	7	123A90-FDL-ST-DD90384/ 1	CWLSB182	330,000 MM	16,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRC Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000492	38	123A90-FDL-ST-DD90065/ 1	CWLNO017	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000493	39	123A90-FDL-ST-DD90065/ 1	CWLNO017	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000494	41	123A90-FDL-ST-DD90065/ 1	CWLNO017	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000495	42	123A90-FDL-ST-DD90065/ 1	CWLNO017	397,400 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000489	39	123A90-FDL-ST-DD90063/ 1	CWLNO015	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000490	41	123A90-FDL-ST-DD90063/ 1	CWLNO015	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000491	42	123A90-FDL-ST-DD90063/ 1	CWLNO015	397,400 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000488	38	123A90-FDL-ST-DD90063/ 1	CWLNO015	397,400 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000486	1	123A90-FDL-ST-DD90247/ 1	CWLTB037	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000487	1	123A90-FDL-ST-DD90245/ 1	CWLTB154	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000485	2	123A90-FDL-ST-DD90203/ 1	CWBR023	406,400 MM	12,70	2A	FCAW	0.310 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000479	1	123A90-FDL-ST-DD90013/ 1	CWLPG014	300,000 MM	25,00	2A	FCAW	0.200 Mt	A
000480	5	123A90-FDL-ST-DD90180/ 1	CWLPG015	300,000 MM	25,00	2A	FCAW	0.180 Mt	A
000481	2	123A90-FDL-ST-DD90180/ 1	CWLPG022	300,000 MM	25,00	2A	FCAW	0.160 Mt	A
000482	6	123A90-FDL-ST-DD90180/ 1	CWLPG031	250,000 MM	20,00	2A	FCAW	0.110 Mt	A
000483	1	123A90-FDL-ST-DD90183/ 1	CWLPG030	250,000 MM	20,00	2A	FCAW	0.114 Mt	A
000484	5	123A90-FDL-ST-DD90183/ 1	CWLPG044	400,000 MM	25,00	2A	FCAW	0.175 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000477	3	123A90-FDL-ST-DD90115/ 1	CWLSB053	160,000 MM	15,00	2A	FCAW	0.160 MT	A
000478	3	123A90-FDL-ST-DD90115/ 1	CWLSB056	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000476	6	123A90-FDL-ST-DD90235/ 1	CWLSB077	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL S.r.l.

ROSETTI MARINO
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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000475	2	123A90-FDL-ST-DD90233/ 1	CWLSB044	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000474	2	123A90-FDL-ST-DD90233/ 1	CWLSB046	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000473	1	123A90-FDL-ST-DD90122/ 1	CWLSB107	72,500 MM	12,00	2A	FCAW	0.076 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000472	2	123A90-FDL-ST-DD90233/ 1	CWLSB048	340,000 MM	7,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL Snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000468	3	123A90-FDL-ST-DD90113/ 1	CWLSB045	300,000 MM	15,00	2A	FCAW	0.300 Mt	A
000469	3	123A90-FDL-ST-DD90113/ 1	CWLSB047	300,000 MM	15,00	2A	FCAW	0.300 Mt	A
000470	3	123A90-FDL-ST-DD90117/ 1	CWLSB064	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
000471	3	123A90-FDL-ST-DD90119/ 1	CWLSB070	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator Morando Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000467	2	123A90-FDL-ST-DD90233/ 1	CWLSB054	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000464	3	123A90-FDL-ST-DD90118/ 1	CWLSB069	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
000465	3	123A90-FDL-ST-DD90205/ 1	CWLSB122	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
000466	3	123A90-FDL-ST-DD90205/ 1	CWLSB123	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000463	3	123A90-FDL-ST-DD90116/ 1	CWLSB060	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000462	3	123A90-FDL-ST-DD90113/ 1	CWLSB046	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000458	1	123A90-FDL-ST-DD90234/ 1	CWLSB010	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000459	5	123A90-FDL-ST-DD90234/ 1	CWLSB010	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000460	1	123A90-FDL-ST-DD90234/ 1	CWLSB011	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000461	5	123A90-FDL-ST-DD90234/ 1	CWLSB011	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000457	6	123A90-FDL-ST-DD90233/ 1	CWLSB071	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operatore Il Motenato Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000455	1	123A90-FDL-ST-DD90234/ 1	CWLSB033	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000456	1	123A90-FDL-ST-DD90234/ 1	CWLSB032	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL Snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000454	5	123A90-FDL-ST-DD90234/ 1	CWLSB032	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000452	7	123A90-FDL-ST-DD90235/ 1	CWLSB122	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
000453	14	123A90-FDL-ST-DD90236/ 1	CWLSB123	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000448	1	123A90-FDL-ST-DD90234/ 1	CWLSB004	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000449	6	123A90-FDL-ST-DD90234/ 1	CWLSB004	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000450	1	123A90-FDL-ST-DD90234/ 1	CWLSB039	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000451	6	123A90-FDL-ST-DD90234/ 1	CWLSB039	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000447	8	123A90-FDL-ST-DD90235/ 1	CWLSB120	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000446	7	123A90-FDL-ST-DD90235/ 1	CWLSB120	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000445	1	123A90-FDL-ST-DD90235/ 1	CWLSB120	330,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000443	1	123A90-FDL-ST-DD90234/ 1	CWLSB117	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000444	6	123A90-FDL-ST-DD90234/ 1	CWLSB117	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000442	8	123A90-FDL-ST-DD90236/ 1	CWLSB141	340,000 MM	11,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000439	1	123A90-FDL-ST-DD90234/ 1	CWLSB005	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000440	6	123A90-FDL-ST-DD90234/ 1	CWLSB005	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000441	1	123A90-FDL-ST-DD90236/ 1	CWLSB141	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000435	1	123A90-FDL-ST-DD90236/ 1	CWLSB142	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000436	8	123A90-FDL-ST-DD90236/ 1	CWLSB142	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000437	1	123A90-FDL-ST-DD90236/ 1	CWLSB143	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000438	8	123A90-FDL-ST-DD90236/ 1	CWLSB143	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL Snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000433	3	123A90-FDL-ST-DD90116/ 1	CWLSB059	160,000 MM	15,00	2A	FCAW	0.160 Mt	A
000434	3	123A90-FDL-ST-DD90205/ 1	CWLSB120	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000428	39	123A90-FDL-ST-DD90066/ 1	CWLNO018	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000429	41	123A90-FDL-ST-DD90066/ 1	CWLNO018	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000430	42	123A90-FDL-ST-DD90066/ 1	CWLNO018	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000431	41	123A90-FDL-ST-DD90064/ 1	CWLNO016	397,400 MM	15,00	2A	FCAW	0.920 Mt	A
000432	42	123A90-FDL-ST-DD90064/ 1	CWLNO016	397,400 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000427	38	123A90-FDL-ST-DD90066/ 1	CWLNO018	397,400 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Sig. Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-03-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000426	39	123A90-FDL-ST-DD90064/ 1	CWLNO016	397,400 MM	15,00	2A	FCAW	0.920 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000425	38	123A90-FDL-ST-DD90064/ 1	CWLNO016	397,400 MM	15,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.7°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68.2°	11	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000423	2	123A90-FDL-ST-DD90286/ 1	CWBR015	600,000 MM	20,00	2A	FCAW	2.383 MI	A
000424	2	123A90-FDL-ST-DD90286/ 1	CWBR025	600,000 MM	20,00	2A	FCAW	2.368 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-03-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	62°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	70.5°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000422	2	123A90-FDL-ST-DD90203/ 1	CWBR023	406,400 MM	12,70	2A	FCAW	1.518 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000422	Pag 2 di 2
		Data/date: 05/03/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90203**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

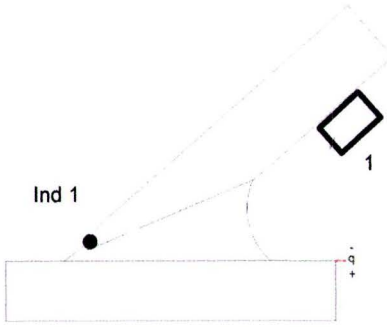
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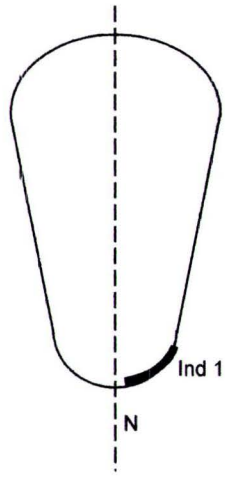
5 ☐

6 ☐

7 ☐

90203/1/CWBR023/2





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
N	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA N Flaw distance from N	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	0÷5 dB	/	210	13	/	0÷2	/	/	0	N	46÷52	1	R	70.5°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORONI MARIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000421	1	123A90-FDL-ST-DD90234/ 1	CWLSB031	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandi Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000419	1	123A90-FDL-ST-DD90236/ 1	CWLSB121	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000420	8	123A90-FDL-ST-DD90236/ 1	CWLSB121	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000418	3	123A90-FDL-ST-DD90205/ 1	CWLSB121	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000417	14	123A90-FDL-ST-DD90236/ 1	CWLSB121	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II UNDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	55°	12	39.30	+6	+3	SHEAR
GE	56929	4	8x9	70°	65°	13	40.10	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-weld.ex	18534	4	3,5x10	0°	0°	/	45.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000415	11	123A90-FDL-ST-DD90107/ 1	CWUPG040	457,200 MM	19,10	2A	FCAW	0.673 Mt	A
000416	12	123A90-FDL-ST-DD90107/ 1	CWUPG040	457,200 MM	19,10	2A	FCAW	0.673 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2nd	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUTTOFD Company: QUALITY CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	55°	12	39.30	+6	+3	SHEAR
GE	56929	4	8x9	70°	65°	13	40.10	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-weld.ex	18534	4	3,5x10	0°	0°	/	45.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000409	11	123A90-FDL-ST-DD90108/ 1	CWUPG041	457,200 MM	19,10	2A	FCAW	0.673 Mt	A
000410	12	123A90-FDL-ST-DD90108/ 1	CWUPG041	457,200 MM	19,10	2A	FCAW	0.673 Mt	A
000411	11	123A90-FDL-ST-DD90101/ 1	CWUPG032	406,400 MM	15,90	2A	FCAW	0.592 Mt	A
000412	12	123A90-FDL-ST-DD90101/ 1	CWUPG032	406,400 MM	15,90	2A	FCAW	0.592 Mt	A
000413	11	123A90-FDL-ST-DD90148/ 1	CWUPG047	406,400 MM	15,90	2A	FCAW	0.592 Mt	A
000414	12	123A90-FDL-ST-DD90148/ 1	CWUPG047	406,400 MM	15,90	2A	FCAW	0.592 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	44.7°	11	31.40	+6	+1	SHEAR
GE	58415-2982	2	14x14	60°	55°	12	38.40	+6	+3	SHEAR
GE	58416-3150	2	14x14	70°	65°	13	39.70	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000407	7	123A90-FDL-ST-DD90108/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000408	8	123A90-FDL-ST-DD90108/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	44.7°	11	31.40	+6	+1	SHEAR
GE	58415-2982	2	14x14	60°	55°	12	38.40	+6	+3	SHEAR
GE	58416-3150	2	14x14	70°	65°	13	39.70	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000401	5	123A90-FDL-ST-DD90107/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000402	6	123A90-FDL-ST-DD90107/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000403	7	123A90-FDL-ST-DD90107/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000404	8	123A90-FDL-ST-DD90107/ 1	CWUPG040	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000405	5	123A90-FDL-ST-DD90108/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
000406	6	123A90-FDL-ST-DD90108/ 1	CWUPG041	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	55°	12	39.30	+6	+3	SHEAR
GE	56929	4	8x9	70°	65°	13	40.10	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	44.7°	11	38.90	+6	+1	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000399	7	123A90-FDL-ST-DD90148/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000400	8	123A90-FDL-ST-DD90148/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	55°	12	39.30	+6	+3	SHEAR
GE	56929	4	8x9	70°	65°	13	40.10	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	44.7°	11	38.90	+6	+1	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000393	5	123A90-FDL-ST-DD90101/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000394	6	123A90-FDL-ST-DD90101/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000395	7	123A90-FDL-ST-DD90101/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000396	8	123A90-FDL-ST-DD90101/ 1	CWUPG032	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000397	5	123A90-FDL-ST-DD90148/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000398	6	123A90-FDL-ST-DD90148/ 1	CWUPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000389	1	123A90-FDL-ST-DD90236/ 1	CWLSB140	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000390	8	123A90-FDL-ST-DD90236/ 1	CWLSB140	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000391	1	123A90-FDL-ST-DD90235/ 1	CWLSB137	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000392	8	123A90-FDL-ST-DD90235/ 1	CWLSB137	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000387	1	123A90-FDL-ST-DD90235/ 1	CWLSB102	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000388	3	123A90-FDL-ST-DD90235/ 1	CWLSB102	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Moraldi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000386	1	123A90-FDL-ST-DD90233/ 1	CWLSB058	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company / CONTROL CONTROL snc Operator / Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000385	7	123A90-FDL-ST-DD90233/ 1	CWLSB070	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000383	1	123A90-FDL-ST-DD90233/ 1	CWLSB053	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000384	1	123A90-FDL-ST-DD90233/ 1	CWLSB070	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000382	3	123A90-FDL-ST-DD90233/ 1	CWLSB056	322,000 MM	10,00	2A	FCAW	0.650 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000381	1	123A90-FDL-ST-DD90233/ 1	CWLSB056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL s.r.c.

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000377	1	123A90-FDL-ST-DD90234/ 1	CWLSB035	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000378	5	123A90-FDL-ST-DD90234/ 1	CWLSB035	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000379	1	123A90-FDL-ST-DD90234/ 1	CWLSB034	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000380	6	123A90-FDL-ST-DD90234/ 1	CWLSB034	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000373	1	123A90-FDL-ST-DD90234/ 1	CWLSB027	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000374	4	123A90-FDL-ST-DD90234/ 1	CWLSB027	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000375	3	123A90-FDL-ST-DD90234/ 1	CWLSB028	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000376	4	123A90-FDL-ST-DD90234/ 1	CWLSB028	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morano Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000372	1	123A90-FDL-ST-DD90233/ 1	CWLSB023	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000371	4	123A90-FDL-ST-DD90234/ 1	CWLSB020	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000370	6	123A90-FDL-ST-DD90233/ 1	CWLSB023	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000368	6	123A90-FDL-ST-DD90233/ 1	CWLSB043	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000369	4	123A90-FDL-ST-DD90234/ 1	CWLSB019	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL S.r.l.	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000364	4	123A90-FDL-ST-DD90233/ 1	CWLSB042	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000365	1	123A90-FDL-ST-DD90234/ 1	CWLSB015	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000366	5	123A90-FDL-ST-DD90234/ 1	CWLSB015	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000367	1	123A90-FDL-ST-DD90233/ 1	CWLSB043	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000363	1	123A90-FDL-ST-DD90233/ 1	CWLSB042	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000361	4	123A90-FDL-ST-DD90233/ 1	CWLSB001	500,000 MM	23,00	2A	FCAW	0.300 MT	A
000362	1	123A90-FDL-ST-DD90233/ 1	CWLSB022	500,000 MM	23,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000358	6	123A90-FDL-ST-DD90233/ 1	CWLSB021	500,000 MM	23,00	2A	FCAW	0.300 MT	A
000359	8	123A90-FDL-ST-DD90233/ 1	CWLSB021	500,000 MM	23,00	2A	FCAW	0.300 MT	A
000360	1	123A90-FDL-ST-DD90233/ 1	CWLSB001	500,000 MM	23,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000356	4	123A90-FDL-ST-DD90233/ 1	CWLSB018	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000357	1	123A90-FDL-ST-DD90233/ 1	CWLSB021	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000355	1	123A90-FDL-ST-DD90233/ 1	CWLSB018	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000351	1	123A90-FDL-ST-DD90233/ 1	CWLSB044	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000352	1	123A90-FDL-ST-DD90233/ 1	CWLSB016	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000353	1	123A90-FDL-ST-DD90233/ 1	CWLSB017	500,000 MM	23,00	2A	FCAW	0.300 Mt	A
000354	6	123A90-FDL-ST-DD90233/ 1	CWLSB017	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-03-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000349	3	123A90-FDL-ST-DD90233/ 1	CWLSB044	642,000 MM	15,00	2A	FCAW	0.645 Mt	A
000350	4	123A90-FDL-ST-DD90233/ 1	CWLSB044	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000347	1	123A90-FDL-ST-DD90246/ 1	CWLTB208	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000348	3	123A90-FDL-ST-DD90246/ 1	CWLTB209	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000346	5	123A90-FDL-ST-DD90234/ 1	CWLSB007	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000340	1	123A90-FDL-ST-DD90233/ 1	CWLSB049	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000341	1	123A90-FDL-ST-DD90234/ 1	CWLSB008	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000342	5	123A90-FDL-ST-DD90234/ 1	CWLSB008	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000343	1	123A90-FDL-ST-DD90234/ 1	CWLSB009	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000344	5	123A90-FDL-ST-DD90234/ 1	CWLSB009	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000345	1	123A90-FDL-ST-DD90234/ 1	CWLSB007	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000338	3	123A90-FDL-ST-DD90113/ 1	CWLSB048	300,000 MM	15,00	2A	FCAW	0.300 Mt	A
000339	3	123A90-FDL-ST-DD90115/ 1	CWLSB054	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000336	1	123A90-FDL-ST-DD90233/ 1	CWLSB072	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000337	1	123A90-FDL-ST-DD90233/ 1	CWLSB046	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000335	3	123A90-FDL-ST-DD90233/ 1	CWLSB047	642,000 MM	15,00	2A	FCAW	0.645 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000334	1	123A90-FDL-ST-DD90233/ 1	CWLSB047	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000332	4	123A90-FDL-ST-DD90233/ 1	CWLSB061	160,000 MM	15,00	2A	FCAW	0.160 MT	A
000333	3	123A90-FDL-ST-DD90233/ 1	CWLSB046	642,000 MM	15,00	2A	FCAW	0.645 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+4	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000331	3	123A90-FDL-ST-DD90233/ 1	CWLSB061	317,000 MM	10,00	2A	FCAW	0.645 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000330	4	123A90-FDL-ST-DD90233/ 1	CWLSB047	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000329	1	123A90-FDL-ST-DD90233/ 1	CWLSB064	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000328	7	123A90-FDL-ST-DD90233/ 1	CWLSB072	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000327	1	123A90-FDL-ST-DD90233/ 1	CWLSB061	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000326	7	123A90-FDL-ST-DD90233/ 1	CWLSB049	300,000 MM	15,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Molfetta Massimiliano CONTROL s.n.c.	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000325	1	123A90-FDL-ST-DD90233/ 1	CWLSB107	330,000 MM	9,50	2A	FCAW	0.011 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000323	4	123A90-FDL-ST-DD90233/ 1	CWLSB046	300,000 MM	15,00	2A	FCAW	0.300 Mt	A
000324	6	123A90-FDL-ST-DD90233/ 1	CWLSB060	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+4	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000322	1	123A90-FDL-ST-DD90233/ 1	CWLSB073	330,000 MM	9,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000321	6	123A90-FDL-ST-DD90233/ 1	CWLSB064	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000320	1	123A90-FDL-ST-DD90247/ 1	CWLTB200	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000317	1	123A90-FDL-ST-DD90235/ 1	CWLSB077	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000318	3	123A90-FDL-ST-DD90235/ 1	CWLSB077	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000319	4	123A90-FDL-ST-DD90235/ 1	CWLSB077	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Mengoli Massimiliano CONTROL s.r.l.	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000315	3	123A90-FDL-ST-DD90233/ 1	CWLSB048	642,000 MM	15,00	2A	FCAW	0.645 Mt	A
000316	4	123A90-FDL-ST-DD90233/ 1	CWLSB048	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000312	1	123A90-FDL-ST-DD90236/ 1	CWLSB145	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000313	8	123A90-FDL-ST-DD90236/ 1	CWLSB145	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000314	1	123A90-FDL-ST-DD90237/ 1	CWLSB123	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Mazzei Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000310	3	123A90-FDL-ST-DD90233/ 1	CWLSB054	642,000 MM	15,00	2A	FCAW	0.645 Mt	A
000311	4	123A90-FDL-ST-DD90233/ 1	CWLSB054	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000309	2	123A90-FDL-ST-DD90289/ 1	CWLG008	406,400 MM	12,70	1A	GTAW+FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000308	1	123A90-FDL-ST-DD90233/ 1	CWLSB048	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Matarazzo Mario CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000307	1	123A90-FDL-ST-DD90233/ 1	CWLSB054	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operatore: Marano Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000304	6	123A90-FDL-ST-DD90117/ 1	CWLSB072	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000305	6	123A90-FDL-ST-DD90114/ 1	CWLSB049	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000306	8	123A90-FDL-ST-DD90114/ 1	CWLSB049	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000303	8	123A90-FDL-ST-DD90117/ 1	CWLSB072	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000302	3	123A90-FDL-ST-DD90117/ 1	CWLSB072	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000301	3	123A90-FDL-ST-DD90114/ 1	CWLSB049	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000300	1	123A90-FDL-ST-DD90233/ 1	CWLSB060	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000299	6	123A90-FDL-ST-DD90233/ 1	CWLSB059	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000298	1	123A90-FDL-ST-DD90233/ 1	CWLSB059	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000296	3	123A90-FDL-ST-DD90233/ 1	CWLSB057	322,000 MM	10,00	2A	FCAW	0.650 Mt	A
000297	4	123A90-FDL-ST-DD90233/ 1	CWLSB057	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT ENC ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000295	1	123A90-FDL-ST-DD90233/ 1	CWLSB057	330,000 MM	11,50	2A	FCAW	0.160 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000294	2	123A90-FDL-ST-DD90284/ 1	CWLG009	323,900 MM	19,05	2A	FCAW	1.017 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morand Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000292	2	123A90-FDL-ST-DD90203/ 1	CWBR019	406,400 MM	12,70	2A	FCAW	1.477 Mt	A
000293	2	123A90-FDL-ST-DD90204/ 1	CWBR017	406,400 MM	12,70	2A	FCAW	1.477 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000288	1	123A90-FDL-ST-DD90234/ 1	CWLSB006	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000289	6	123A90-FDL-ST-DD90234/ 1	CWLSB006	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000290	1	123A90-FDL-ST-DD90234/ 1	CWLSB026	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000291	5	123A90-FDL-ST-DD90234/ 1	CWLSB026	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000285	1	123A90-FDL-ST-DD90235/ 1	CWLSB093	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000286	3	123A90-FDL-ST-DD90235/ 1	CWLSB093	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000287	1	123A90-FDL-ST-DD90235/ 1	CWLSB094	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000279	1	123A90-FDL-ST-DD90235/ 1	CWLSB122	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000280	11	123A90-FDL-ST-DD90237/ 1	CWLSB146	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000281	1	123A90-FDL-ST-DD90237/ 1	CWLSB147	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000282	8	123A90-FDL-ST-DD90237/ 1	CWLSB147	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000283	1	123A90-FDL-ST-DD90237/ 1	CWLSB148	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000284	11	123A90-FDL-ST-DD90237/ 1	CWLSB148	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000276	1	123A90-FDL-ST-DD90246/ 1	CWLTB087	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000277	3	123A90-FDL-ST-DD90246/ 1	CWLTB087	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000278	2	123A90-FDL-ST-DD90246/ 1	CWLTB196	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000270	8	123A90-FDL-ST-DD90236/ 1	CWLSB122	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000271	8	123A90-FDL-ST-DD90236/ 1	CWLSB123	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000272	8	123A90-FDL-ST-DD90237/ 1	CWLSB124	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000273	1	123A90-FDL-ST-DD90237/ 1	CWLSB138	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000274	8	123A90-FDL-ST-DD90237/ 1	CWLSB138	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000275	1	123A90-FDL-ST-DD90237/ 1	CWLSB146	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000264	1	123A90-FDL-ST-DD90246/ 1	CWLTB120	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000265	3	123A90-FDL-ST-DD90246/ 1	CWLTB120	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000266	1	123A90-FDL-ST-DD90246/ 1	CWLTB197	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000267	3	123A90-FDL-ST-DD90246/ 1	CWLTB197	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000268	3	123A90-FDL-ST-DD90246/ 1	CWLTB086	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000269	5	123A90-FDL-ST-DD90246/ 1	CWLTB086	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000262	1	123A90-FDL-ST-DD90233/ 1	CWLSB074	330,000 MM	9,50	2A	FCAW	0.160 Mt	A
000263	1	123A90-FDL-ST-DD90233/ 1	CWLSB114	330,000 MM	9,50	2A	FCAW	0.011 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000261	7	123A90-FDL-ST-DD90233/ 1	CWLSB069	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000259	1	123A90-FDL-ST-DD90247/ 1	CWLTB088	240,000 MM	9,80	2A	FCAW	0.120 MT	A
000260	1	123A90-FDL-ST-DD90233/ 1	CWLSB069	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000254	3	123A90-FDL-ST-DD90235/ 1	CWLSB094	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000255	1	123A90-FDL-ST-DD90235/ 1	CWLSB095	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000256	3	123A90-FDL-ST-DD90235/ 1	CWLSB095	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000257	1	123A90-FDL-ST-DD90235/ 1	CWLSB097	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000258	3	123A90-FDL-ST-DD90235/ 1	CWLSB097	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000251	1	123A90-FDL-ST-DD90236/ 1	CWLSB144	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000252	8	123A90-FDL-ST-DD90236/ 1	CWLSB144	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000253	1	123A90-FDL-ST-DD90237/ 1	CWLSB124	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000250	4	123A90-FDL-ST-DD90246/ 1	CWLTB196	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Petrarchi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
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Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
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OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000247	1	123A90-FDL-ST-DD90245/ 1	CWLTB157	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000248	1	123A90-FDL-ST-DD90237/ 1	CWLSB139	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
000249	8	123A90-FDL-ST-DD90237/ 1	CWLSB139	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
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TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000246	1	123A90-FDL-ST-DD90246/ 1	CWLTB119	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000243	1	123A90-FDL-ST-DD90247/ 1	CWLTB058	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000244	3	123A90-FDL-ST-DD90247/ 1	CWLTB059	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000245	3	123A90-FDL-ST-DD90247/ 1	CWLTB064	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000242	1	123A90-FDL-ST-DD90247/ 1	CWLTB051	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
QUALITY CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000241	1	123A90-FDL-ST-DD90184/ 1	CWLPG049	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL s.n.c. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000240	5	123A90-FDL-ST-DD90183/ 1	CWLPG032	950,000 MM	20,00	2A	FCAW	0.943 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000238	3	123A90-FDL-ST-DD90183/ 1	CWLPG032	950,000 MM	20,00	2A	FCAW	0.102 Mt	A
000239	4	123A90-FDL-ST-DD90183/ 1	CWLPG032	950,000 MM	20,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL Srl

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000232	7	123A90-FDL-ST-DD90182/ 1	CWLPG028	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000233	2	123A90-FDL-ST-DD90182/ 1	CWLPG012	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000234	2	123A90-FDL-ST-DD90184/ 1	CWLPG049	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000235	3	123A90-FDL-ST-DD90184/ 1	CWLPG049	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000236	1	123A90-FDL-ST-DD90183/ 1	CWLPG032	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000237	2	123A90-FDL-ST-DD90183/ 1	CWLPG032	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-02-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000231	1	123A90-FDL-ST-DD90285/ 1	CWLG018	406,400 MM	21,40	2A	FCAW	1.276 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000230	1	123A90-FDL-ST-DD90285/ 1	CWLG017	406,400 MM	21,40	2A	FCAW	1.276 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000228	2	123A90-FDL-ST-DD90285/ 1	CWLG005	406,400 MM	12,70	2A	FCAW	0.638 Mt	A
000229	2	123A90-FDL-ST-DD90285/ 1	CWLG006	406,400 MM	12,70	2A	FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000224	1	123A90-FDL-ST-DD90246/ 1	CWLTB198	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000225	3	123A90-FDL-ST-DD90246/ 1	CWLTB198	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000226	4	123A90-FDL-ST-DD90246/ 1	CWLTB198	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
000227	6	123A90-FDL-ST-DD90246/ 1	CWLTB198	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000221	5	123A90-FDL-ST-DD90234/ 1	CWLSB037	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000222	1	123A90-FDL-ST-DD90237/ 1	CWLSB136	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000223	1	123A90-FDL-ST-DD90237/ 1	CWLSB175	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000215	4	123A90-FDL-ST-DD90234/ 1	CWLSB003	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000216	1	123A90-FDL-ST-DD90234/ 1	CWLSB024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000217	5	123A90-FDL-ST-DD90234/ 1	CWLSB024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000218	1	123A90-FDL-ST-DD90234/ 1	CWLSB036	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000219	5	123A90-FDL-ST-DD90234/ 1	CWLSB036	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000220	1	123A90-FDL-ST-DD90234/ 1	CWLSB037	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000213	1	123A90-FDL-ST-DD90234/ 1	CWLSB003	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000214	3	123A90-FDL-ST-DD90234/ 1	CWLSB003	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000212	7	123A90-FDL-ST-DD90183/ 1	CWLPG004	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000211	6	123A90-FDL-ST-DD90183/ 1	CWLPG004	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	45°	10	46.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000210	10	123A90-FDL-ST-DD90182/ 1	CWLPG028	950,000 MM	15,00	2A	FCAW	0.936 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000208	8	123A90-FDL-ST-DD90182/ 1	CWLPG028	950,000 MM	15,00	2A	FCAW	0.099 MT	A
000209	9	123A90-FDL-ST-DD90182/ 1	CWLPG028	950,000 MM	15,00	2A	FCAW	0.093 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000207	2	123A90-FDL-ST-DD90284/ 1	CWLG009	323,900 MM	10,30	2A	FCAW	1.017 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	LONG
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000206	2	123A90-FDL-ST-DD90284/ 1	CWLG002	273,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000205	5	123A90-FDL-ST-DD90182/ 1	CWLPG012	950,000 MM	15,00	2A	FCAW	0.937 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandi Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000203	3	123A90-FDL-ST-DD90182/ 1	CWLPG012	950,000 MM	15,00	2A	FCAW	0.099 Mt	A
000204	4	123A90-FDL-ST-DD90182/ 1	CWLPG012	950,000 MM	15,00	2A	FCAW	0.092 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME
Examination Date
20-02-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.8°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000201	2	123A90-FDL-ST-DD90286/ 1	CWLG011	800,000 MM	20,00	1A	GTAW+FCAW	2.544 Mt	A
000202	2	123A90-FDL-ST-DD90286/ 1	CWLG013	800,000 MM	20,00	1A	GTAW+FCAW	2.540 Mt	A

NOTE / Remarks Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000196	2	123A90-FDL-ST-DD90183/ 1	CWLPG030	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000197	1	123A90-FDL-ST-DD90183/ 1	CWLPG026	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000198	2	123A90-FDL-ST-DD90183/ 1	CWLPG026	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000199	1	123A90-FDL-ST-DD90182/ 1	CWLPG012	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000200	6	123A90-FDL-ST-DD90182/ 1	CWLPG028	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Trusonic	09223	4	8x9	60°	59°	10	38.80	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000195	1	123A90-FDL-ST-DD90183/ 1	CWLPG030	250,000 MM	20,00	2A	FCAW	0.250 MT	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000195	Pag 2 di 2
		Data/date: 21/02/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90183

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

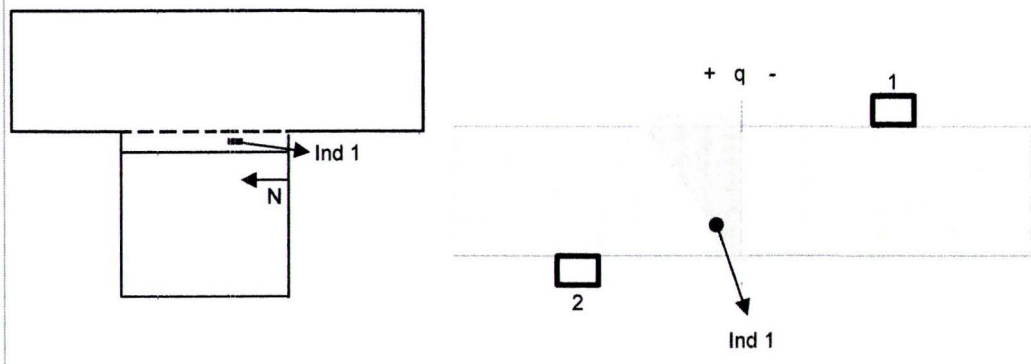
4 ☐

5 ☐

6 ☐

7 ☐

90183/1/CWLPG030/1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-1 dB	/	14	14÷15	/	+5	/	/	90	←	42	1-2	R	67.9°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.9°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000194	2	123A90-FDL-ST-DD90180/ 1	CWLPG018	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL ROSETTI MARINO SPA Operator: Morandi Massimiliano CONTROL STC Comandini Massimo Level III NDT EN - ISO9712				

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000193	10	123A90-FDL-ST-DD90181/ 1	CWLPG040	960,000 MM	15,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL srl

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000191	8	123A90-FDL-ST-DD90181/ 1	CWLPG040	960,000 MM	15,00	2A	FCAW	0.102 Mt	A
000192	9	123A90-FDL-ST-DD90181/ 1	CWLPG040	960,000 MM	15,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000190	5	123A90-FDL-ST-DD90181/ 1	CWLPG041	960,000 MM	15,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000189	4	123A90-FDL-ST-DD90181/ 1	CWLPG041	960,000 MM	15,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000188	3	123A90-FDL-ST-DD90181/ 1	CWLPG041	960,000 MM	15,00	2A	FCAW	0.100 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL s.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000187	5	123A90-FDL-ST-DD90181/ 1	CWLPG039	960,000 MM	15,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000185	3	123A90-FDL-ST-DD90181/ 1	CWLPG039	960,000 MM	15,00	2A	FCAW	0.102 Mt	A
000186	4	123A90-FDL-ST-DD90181/ 1	CWLPG039	960,000 MM	15,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000184	6	123A90-FDL-ST-DD90181/ 1	CWLPG013	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO END Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL Snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000182	6	123A90-FDL-ST-DD90181/ 1	CWLPG040	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000183	7	123A90-FDL-ST-DD90181/ 1	CWLPG040	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000176	4	123A90-FDL-ST-DD90181/ 1	CWLPG013	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000177	5	123A90-FDL-ST-DD90181/ 1	CWLPG013	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000178	1	123A90-FDL-ST-DD90181/ 1	CWLPG039	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000179	2	123A90-FDL-ST-DD90181/ 1	CWLPG039	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000180	1	123A90-FDL-ST-DD90181/ 1	CWLPG041	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000181	2	123A90-FDL-ST-DD90181/ 1	CWLPG041	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000175	1	123A90-FDL-ST-DD90180/ 1	CWLPG018	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000174	5	123A90-FDL-ST-DD90180/ 1	CWLPG015	300,000 MM	25,00	2A	FCAW	0.300 Mt	R

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 000174	Pag 2 di 2
		Data/date: 19/02/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90180**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

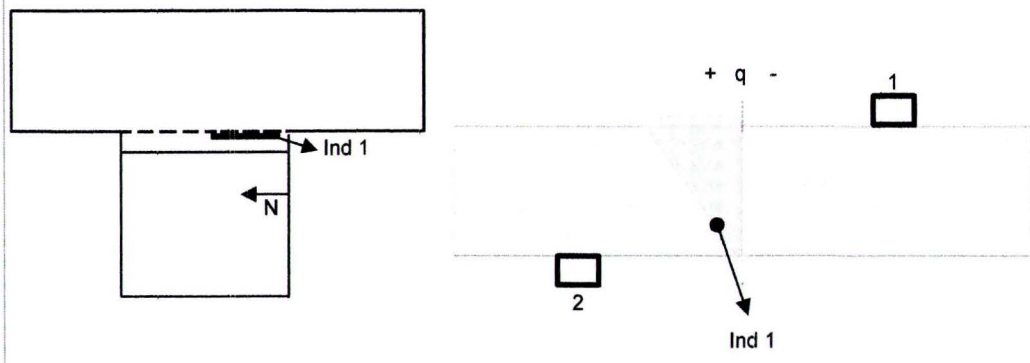
4 ☐

5 ☐

6 ☐

7 ☐

90180/1/CWLPG015/5



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	80	18	/	+10	/	/	30	←	60	1	R	68°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

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TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000173	4	123A90-FDL-ST-DD90180/ 1	CWLPG015	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROLsnc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000172	8	123A90-FDL-ST-DD90182/ 1	CWLPG027	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL s.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000166	1	123A90-FDL-ST-DD90180/ 1	CWLPG019	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000167	2	123A90-FDL-ST-DD90180/ 1	CWLPG019	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000168	6	123A90-FDL-ST-DD90182/ 1	CWLPG027	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000169	7	123A90-FDL-ST-DD90182/ 1	CWLPG027	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000170	1	123A90-FDL-ST-DD90182/ 1	CWLPG028	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000171	2	123A90-FDL-ST-DD90182/ 1	CWLPG028	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Pisce temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000160	1	123A90-FDL-ST-DD90182/ 1	CWLPG003	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000161	2	123A90-FDL-ST-DD90182/ 1	CWLPG003	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000162	6	123A90-FDL-ST-DD90182/ 1	CWLPG029	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000163	7	123A90-FDL-ST-DD90182/ 1	CWLPG029	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000164	6	123A90-FDL-ST-DD90180/ 1	CWLPG020	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000165	7	123A90-FDL-ST-DD90180/ 1	CWLPG020	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000159	1	123A90-FDL-ST-DD90191/ 1	CWLG008	406,400 MM	12,70	2A	FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000158	5	123A90-FDL-ST-DD90234/ 1	CWLSB041	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000152	4	123A90-FDL-ST-DD90234/ 1	CWLSB002	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000153	1	123A90-FDL-ST-DD90234/ 1	CWLSB012	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000154	5	123A90-FDL-ST-DD90234/ 1	CWLSB012	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000155	1	123A90-FDL-ST-DD90234/ 1	CWLSB014	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000156	5	123A90-FDL-ST-DD90234/ 1	CWLSB014	340,000 MM	16,50	2A	FCAW	0.300 MT	A
000157	1	123A90-FDL-ST-DD90234/ 1	CWLSB041	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000150	1	123A90-FDL-ST-DD90234/ 1	CWLSB002	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
000151	3	123A90-FDL-ST-DD90234/ 1	CWLSB002	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000149	8	123A90-FDL-ST-DD90183/ 1	CWLPG026	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000147	6	123A90-FDL-ST-DD90183/ 1	CWLPG026	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000148	7	123A90-FDL-ST-DD90183/ 1	CWLPG026	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000146	5	123A90-FDL-ST-DD90182/ 1	CWLPG029	960,000 MM	15,00	2A	FCAW	0.946 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000144	3	123A90-FDL-ST-DD90182/ 1	CWLPG029	960,000 MM	15,00	2A	FCAW	0.103 Mt	A
000145	4	123A90-FDL-ST-DD90182/ 1	CWLPG029	960,000 MM	15,00	2A	FCAW	0.093 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000140	1	123A90-FDL-ST-DD90182/ 1	CWLPG027	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000141	2	123A90-FDL-ST-DD90182/ 1	CWLPG027	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000142	1	123A90-FDL-ST-DD90182/ 1	CWLPG029	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000143	2	123A90-FDL-ST-DD90182/ 1	CWLPG029	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000139	3	123A90-FDL-ST-DD90181/ 1	CWLPG013	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000133	4	123A90-FDL-ST-DD90180/ 1	CWLPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000134	5	123A90-FDL-ST-DD90180/ 1	CWLPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000135	1	123A90-FDL-ST-DD90180/ 1	CWLPG017	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000136	2	123A90-FDL-ST-DD90180/ 1	CWLPG017	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000137	1	123A90-FDL-ST-DD90181/ 1	CWLPG013	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000138	2	123A90-FDL-ST-DD90181/ 1	CWLPG013	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000132	3	123A90-FDL-ST-DD90180/ 1	CWLPG015	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	59°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.7°	14	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000130	1	123A90-FDL-ST-DD90180/ 1	CWLPG015	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000131	2	123A90-FDL-ST-DD90180/ 1	CWLPG015	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	16	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000129	8	123A90-FDL-ST-DD90180/ 1	CWLPG018	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRC Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	16	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000127	6	123A90-FDL-ST-DD90180/ 1	CWLPG018	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000128	7	123A90-FDL-ST-DD90180/ 1	CWLPG018	300,000 MM	25,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	16	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000126	2	123A90-FDL-ST-DD90183/ 1	CWLPG004	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67°	16	35.80	+6	+4	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000125	1	123A90-FDL-ST-DD90183/ 1	CWLPG004	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.4°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	9	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000124	4	123A90-FDL-ST-DD90181/ 1	CWLPG043	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EC - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded	[X] SPAZZOLATO As brushed	[ ] LAVORATO A MACCHINA As Machined	[ ] CLADDATO As cladded	[ ] MOLATO As Grounded
[ ] LAMINATO As rolled	[ ] GREZZO As forged	[ ] SABBIATO As Sand Blasted	[ ] VERNICIATO As painted	[ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.4°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000123	5	123A90-FDL-ST-DD90181/ 1	CWLPG037	950,000 MM	20,00	2A	FCAW	0.934 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.4°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000121	3	123A90-FDL-ST-DD90181/ 1	CWLPG037	950,000 MM	20,00	2A	FCAW	0.098 Mt	A
000122	4	123A90-FDL-ST-DD90181/ 1	CWLPG037	950,000 MM	20,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.4°	11	35.80	+6	+2	SHEAR
Siui	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000120	8	123A90-FDL-ST-DD90180/ 1	CWLPG017	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.4°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	9	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000115	1	123A90-FDL-ST-DD90181/ 1	CWLPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000116	2	123A90-FDL-ST-DD90181/ 1	CWLPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000117	3	123A90-FDL-ST-DD90181/ 1	CWLPG047	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000118	6	123A90-FDL-ST-DD90182/ 1	CWLPG003	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000119	7	123A90-FDL-ST-DD90182/ 1	CWLPG003	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.4°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	9	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical istate and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000109	6	123A90-FDL-ST-DD90183/ 1	CWLPG044	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000110	1	123A90-FDL-ST-DD90180/ 1	CWLPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000111	2	123A90-FDL-ST-DD90180/ 1	CWLPG016	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000112	3	123A90-FDL-ST-DD90180/ 1	CWLPG016	950,000 MM	15,00	2A	FCAW	0.950 Mt	A
000113	6	123A90-FDL-ST-DD90180/ 1	CWLPG017	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000114	7	123A90-FDL-ST-DD90180/ 1	CWLPG017	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	67.4°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	9	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000103	1	123A90-FDL-ST-DD90181/ 1	CWLPG037	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000104	2	123A90-FDL-ST-DD90181/ 1	CWLPG037	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000105	5	123A90-FDL-ST-DD90181/ 1	CWLPG043	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000106	6	123A90-FDL-ST-DD90181/ 1	CWLPG043	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000107	4	123A90-FDL-ST-DD90183/ 1	CWLPG044	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000108	5	123A90-FDL-ST-DD90183/ 1	CWLPG044	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL sne Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.9°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.1°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.9°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000100	1	123A90-FDL-ST-DD90184/ 1	CWLPG042	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000101	2	123A90-FDL-ST-DD90184/ 1	CWLPG042	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000102	3	123A90-FDL-ST-DD90184/ 1	CWLPG042	950,000 MM	20,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Place temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA -Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.9°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.1°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	44.9°	10	46.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000099	5	123A90-FDL-ST-DD90183/ 1	CWLPG036	950,000 MM	20,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.9°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.1°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000097	3	123A90-FDL-ST-DD90183/ 1	CWLPG036	950,000 MM	20,00	2A	FCAW	0.102 MT	A
000098	4	123A90-FDL-ST-DD90183/ 1	CWLPG036	950,000 MM	20,00	2A	FCAW	0.102 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.9°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.1°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.9°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000092	1	123A90-FDL-ST-DD90181/ 1	CWLPG045	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000093	2	123A90-FDL-ST-DD90181/ 1	CWLPG045	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000094	3	123A90-FDL-ST-DD90181/ 1	CWLPG045	950,000 MM	20,00	2A	FCAW	0.950 MT	A
000095	1	123A90-FDL-ST-DD90183/ 1	CWLPG036	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000096	2	123A90-FDL-ST-DD90183/ 1	CWLPG036	300,000 MM	25,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-02-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.9°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.1°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.9°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000087	5	123A90-FDL-ST-DD90184/ 1	CWLPG048	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000088	6	123A90-FDL-ST-DD90184/ 1	CWLPG048	950,000 MM	20,00	2A	FCAW	0.950 MT	A
000089	4	123A90-FDL-ST-DD90181/ 1	CWLPG046	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000090	5	123A90-FDL-ST-DD90181/ 1	CWLPG046	400,000 MM	25,00	2A	FCAW	0.400 MT	A
000091	6	123A90-FDL-ST-DD90181/ 1	CWLPG046	950,000 MM	20,00	2A	FCAW	0.950 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL srl Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-02-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.9°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.1°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.9°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000086	4	123A90-FDL-ST-DD90184/ 1	CWLPG048	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000080	3	123A90-FDL-ST-DD90184/ 1	CWLPG048	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000081	1	123A90-FDL-ST-DD90181/ 1	CWLPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000082	2	123A90-FDL-ST-DD90181/ 1	CWLPG046	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000083	3	123A90-FDL-ST-DD90181/ 1	CWLPG046	950,000 MM	20,00	2A	FCAW	0.950 Mt	A
000084	1	123A90-FDL-ST-DD90184/ 1	CWLPG048	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000085	2	123A90-FDL-ST-DD90184/ 1	CWLPG048	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000078	4	123A90-FDL-ST-DD90180/ 1	CWLPG023	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000079	5	123A90-FDL-ST-DD90180/ 1	CWLPG023	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000077	3	123A90-FDL-ST-DD90180/ 1	CWLPG023	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	44.8°	10	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	58.6°	13	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	69.3°	11	46.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000076	2	123A90-FDL-ST-DD90180/ 1	CWLPG023	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000075	1	123A90-FDL-ST-DD90180/ 1	CWLPG023	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.7°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000069	7	123A90-FDL-ST-DD90180/ 1	CWLPG022	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000070	2	123A90-FDL-ST-DD90183/ 1	CWLPG007	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000071	1	123A90-FDL-ST-DD90182/ 1	CWLPG009	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000072	2	123A90-FDL-ST-DD90182/ 1	CWLPG009	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000073	1	123A90-FDL-ST-DD90183/ 1	CWLPG007	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000074	6	123A90-FDL-ST-DD90180/ 1	CWLPG023	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+6	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000068	6	123A90-FDL-ST-DD90180/ 1	CWLPG022	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000067	3	123A90-FDL-ST-DD90183/ 1	CWLPG025	950,000 MM	15,00	2A	FCAW	0.950 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-02-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000064	2	123A90-FDL-ST-DD90182/ 1	CWLPG011	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000065	1	123A90-FDL-ST-DD90183/ 1	CWLPG025	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000066	2	123A90-FDL-ST-DD90183/ 1	CWLPG025	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000058	1	123A90-FDL-ST-DD90180/ 1	CWLPG021	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000059	2	123A90-FDL-ST-DD90180/ 1	CWLPG021	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000060	6	123A90-FDL-ST-DD90182/ 1	CWLPG011	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
000061	4	123A90-FDL-ST-DD90182/ 1	CWLPG005	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000062	5	123A90-FDL-ST-DD90182/ 1	CWLPG005	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000063	1	123A90-FDL-ST-DD90182/ 1	CWLPG011	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandi Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000057	10	123A90-FDL-ST-DD90182/ 1	CWLPG011	950,000 MM	15,00	2A	FCAW	0.936 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000055	8	123A90-FDL-ST-DD90182/ 1	CWLPG011	950,000 MM	15,00	2A	FCAW	0.099 MT	A
000056	9	123A90-FDL-ST-DD90182/ 1	CWLPG011	950,000 MM	15,00	2A	FCAW	0.093 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000053	6	123A90-FDL-ST-DD90183/ 1	CWLPG024	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000054	7	123A90-FDL-ST-DD90182/ 1	CWLPG011	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Name: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000051	6	123A90-FDL-ST-DD90183/ 1	CWLPG006	300,000 MM	25,00	2A	FCAW	0.300 MT	A
000052	7	123A90-FDL-ST-DD90183/ 1	CWLPG006	300,000 MM	25,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000050	5	123A90-FDL-ST-DD90183/ 1	CWLPG006	950,000 MM	15,00	2A	FCAW	0.936 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000048	3	123A90-FDL-ST-DD90183/ 1	CWLPG006	950,000 MM	15,00	2A	FCAW	0.099 Mt	A
000049	4	123A90-FDL-ST-DD90183/ 1	CWLPG006	950,000 MM	15,00	2A	FCAW	0.093 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo CONTROL snc Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000046	1	123A90-FDL-ST-DD90183/ 1	CWLPG006	300,000 MM	25,00	2A	FCAW	0.300 MI	A
000047	2	123A90-FDL-ST-DD90183/ 1	CWLPG006	300,000 MM	25,00	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000045	3	123A90-FDL-ST-DD90182/ 1	CWLPG005	950,000 MM	15,00	2A	FCAW	0.950 MM	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000044	2	123A90-FDL-ST-DD90182/ 1	CWLPG005	300,000 MM	25,00	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat9	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000043	1	123A90-FDL-ST-DD90182/ 1	CWLPG005	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000041	6	123A90-FDL-ST-DD90182/ 1	CWLPG002	250,000 MM	20,00	2A	FCAW	0.250 MI	A
000042	7	123A90-FDL-ST-DD90182/ 1	CWLPG002	250,000 MM	20,00	2A	FCAW	0.250 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000039	4	123A90-FDL-ST-DD90183/ 1	CWLPG025	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000040	5	123A90-FDL-ST-DD90183/ 1	CWLPG025	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	190986611	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000038	10	123A90-FDL-ST-DD90183/ 1	CWLPG024	960,000 MM	15,00	2A	FCAW	0.954 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL STC Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	190986611	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000037	9	123A90-FDL-ST-DD90183/ 1	CWLPG024	960,000 MM	15,00	2A	FCAW	0.100 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	190986611	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000036	8	123A90-FDL-ST-DD90183/ 1	CWLPG024	960,000 MM	15,00	2A	FCAW	0.100 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l.c. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	190986611	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	44.8°	10	42.90	+6	+2	SHEAR
Siui (Base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000035	7	123A90-FDL-ST-DD90183/ 1	CWLPG024	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL ROSETTI MARINO SPA CONTROL snc Operator: Morandi Massimiliano	Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000034	6	123A90-FDL-ST-DD90180/ 1	CWLPG014	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Mandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000032	4	123A90-FDL-ST-DD90180/ 1	CWLPG014	300,000 MM	25,00	2A	FCAW	0.300 MI	A
000033	5	123A90-FDL-ST-DD90180/ 1	CWLPG014	300,000 MM	25,00	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000031	3	123A90-FDL-ST-DD90180/ 1	CWLPG014	950,000 MM	15,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000027	1	123A90-FDL-ST-DD90183/ 1	CWLPG024	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000028	2	123A90-FDL-ST-DD90183/ 1	CWLPG024	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000029	1	123A90-FDL-ST-DD90180/ 1	CWLPG014	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000030	2	123A90-FDL-ST-DD90180/ 1	CWLPG014	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL s.r.l. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000020	10	123A90-FDL-ST-DD90180/ 1	CWLPG038	960,000 MM	15,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL sncOperator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000021	1	123A90-FDL-ST-DD90182/ 1	CWLPG002	250,000 MM	20,00	2A	FCAW	0.250 MT	A
000022	2	123A90-FDL-ST-DD90182/ 1	CWLPG002	250,000 MM	20,00	2A	FCAW	0.250 MT	A
000023	1	123A90-FDL-ST-DD90183/ 1	CWLPG001	250,000 MM	20,00	2A	FCAW	0.250 MT	A
000024	2	123A90-FDL-ST-DD90183/ 1	CWLPG001	250,000 MM	20,00	2A	FCAW	0.250 MT	A
000025	6	123A90-FDL-ST-DD90183/ 1	CWLPG001	250,000 MM	20,00	2A	FCAW	0.250 MT	A
000026	7	123A90-FDL-ST-DD90183/ 1	CWLPG001	250,000 MM	20,00	2A	FCAW	0.250 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000019	9	123A90-FDL-ST-DD90180/ 1	CWLPG038	960,000 MM	15,00	2A	FCAW	0.102 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	r	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000018	8	123A90-FDL-ST-DD90180/ 1	CWLPG038	960,000 MM	15,00	2A	FCAW	0.078 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL srl Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000016	6	123A90-FDL-ST-DD90180/ 1	CWLPG038	250,000 MM	20,00	2A	FCAW	0.250 MI	A
000017	7	123A90-FDL-ST-DD90180/ 1	CWLPG038	250,000 MM	20,00	2A	FCAW	0.250 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL srl Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000015	5	123A90-FDL-ST-DD90180/ 1	CWLPG031	960,000 MM	15,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	a	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000014	4	123A90-FDL-ST-DD90180/ 1	CWLPG031	960,000 MM	15,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57.6°	13	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000013	3	123A90-FDL-ST-DD90180/ 1	CWLPG031	960,000 MM	15,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2à	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000011	1	123A90-FDL-ST-DD90180/ 1	CWLPG031	250,000 MM	20,00	2A	FCAW	0.250 Mt	A
000012	2	123A90-FDL-ST-DD90180/ 1	CWLPG031	250,000 MM	20,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	3,5x10	0°	45°	10	43.00	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical istate and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000010	8	123A90-FDL-ST-DD90181/ 1	CWLPG035	950,000 MM	20,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	3,5x10	0°	45°	10	43.00	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000008	6	123A90-FDL-ST-DD90181/ 1	CWLPG035	950,000 MM	20,00	2A	FCAW	0.102 MT	A
000009	7	123A90-FDL-ST-DD90181/ 1	CWLPG035	950,000 MM	20,00	2A	FCAW	0.102 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Morandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000006	4	123A90-FDL-ST-DD90181/ 1	CWLPG035	300,000 MM	25,00	2A	FCAW	0.300 Mt	A
000007	5	123A90-FDL-ST-DD90181/ 1	CWLPG035	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.R.L. Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	56929	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000005	4	123A90-FDL-ST-DD90184/ 1	CWLPG033	300,000 MM	25,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420 API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	56929	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
Krautkramer	18785	4	3,5x10	0°	45	10	43.00	+6	+2	SHEAR
Phoenix	18534	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000004	8	123A90-FDL-ST-DD90184/ 1	CWLPG033	950,000 MM	20,00	2A	FCAW	0.942 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL S.r.l.

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	3,5x10	0°	45	10	43.00	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000002	6	123A90-FDL-ST-DD90184/ 1	CWLPG033	950,000 MM	20,00	2A	FCAW	0.098 Mt	A
000003	7	123A90-FDL-ST-DD90184/ 1	CWLPG033	950,000 MM	20,00	2A	FCAW	0.102 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-01-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59.2°	10	32.20	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	11	32.00	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	34.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	43.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000001	5	123A90-FDL-ST-DD90184/ 1	CWLPG033	300,000 MM	25,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002480	1	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	20,00	2A	FCAW	2.073 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Controller: MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002478	164	123A90-FDL-ST-DD90653/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	1.097 Mt	A
002479	165	123A90-FDL-ST-DD90653/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	1.100 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002477	3	123A90-FDL-ST-DD90203/ 1	CWBR024	406,400 MM	12,70	2A	FCAW	1.276 MI	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002476	1	123A90-FDL-ST-DD90203/ 1	CWBR024	406,400 MM	12,70	2A	FCAW	1.617 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002471	12	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A
002472	111	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.708 Mt	A
002473	112	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.708 Mt	A
002474	129	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.534 Mt	A
002475	130	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.534 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002470	11	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

Company's CONTROL

Project PAUT-TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+3	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002468	19	123A90-FDL-ST-DD90755/ 1	CWTPSG004	660,000 MM	20,00	2A	FCAW	0.355 Mt	A
002469	23	123A90-FDL-ST-DD90755/ 1	CWTPSG004	660,000 MM	20,00	2A	FCAW	0.355 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRC Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+2	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002467	17	123A90-FDL-ST-DD90755/ 1	CWTPSG004	660,000 MM	20,00	2A	FCAW	0.355 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+3	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002463	18	123A90-FDL-ST-DD90753/ 1	CWTPSG001	406,400 MM	20,62	2A	FCAW	0.450 MT	A
002464	19	123A90-FDL-ST-DD90753/ 1	CWTPSG001	190,700 MM	25,00	2A	FCAW	0.450 MT	A
002465	21	123A90-FDL-ST-DD90753/ 1	CWTPSG001	406,400 MM	20,62	2A	FCAW	0.450 MT	A
002466	23	123A90-FDL-ST-DD90753/ 1	CWTPSG001	406,400 MM	20,62	2A	FCAW	0.450 MT	A

NOTE / Remarks: -Piece temperature: from 16°C. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+3	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002462	17	123A90-FDL-ST-DD90753/ 1	CWTPSG001	406,400 MM	25,00	2A	FCAW	0.450 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+3	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR
Olympus	662050	4	8x9	45°	45°	10	38.50	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002461	2	123A90-FDL-ST-DD90753/ 1	CWTPSG001	406,400 MM	20,62	2A	FCAW	1.276 MI	A

NOTE / Remarks -Piece temperature: from 16°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002460	3	123A90-FDL-ST-DD90203/ 1	CWBR023	406,400 MM	12,70	2A	FCAW	1.276 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002459	1	123A90-FDL-ST-DD90203/ 1	CWBR023	406,400 MM	12,70	2A	FCAW	1.617 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Company CONTROL Operator ROSATI Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-11-2024

FOGLIO / Sheet n° 1 of 5

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 121-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002458	1	123A90-FDL-ST-DD90495/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	21.956 Mt	R

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002458	Pag 2 di 5
		Data/date: 25/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☒ 70°

3 ☐

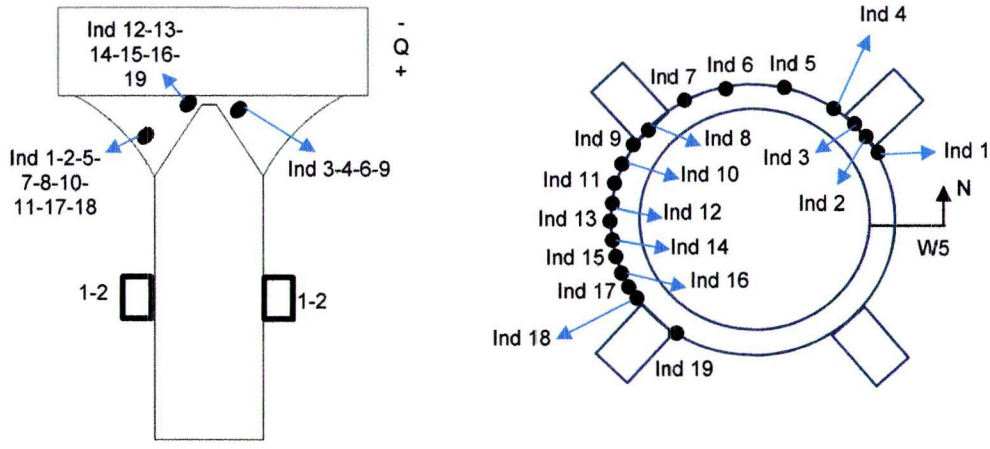
4 ☐

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6 ☐

7 ☐

90495/1/CWTP009/ W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	400	14	/	+18	/	/	**2100**	**W5**	152	1	**R**	59°	PLANAR
2	-3 dB	/	410	13	/	+20	/	/	**2500**	**W5**	151	1	**R**	59°	PLANAR
3	-3 dB	/	1000	35	/	+16	/	/	**3100**	**W5**	162	1	**R**	59°	PLANAR
4	-4 dB	/	300	35	/	+18	/	/	**4350**	**W5**	166	1	**R**	59°	PLANAR
5	-3 dB	/	2050	20	/	+16	/	/	**4780**	**W5**	168	1	**R**	59°	VOLUMETRIC
6	-4 dB	/	100	40	/	+18	/	/	**5800**	**W5**	172	1	**R**	59°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002458	Pag 3 di 5
		Data/date: 25/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☒ 70°

3 ☐

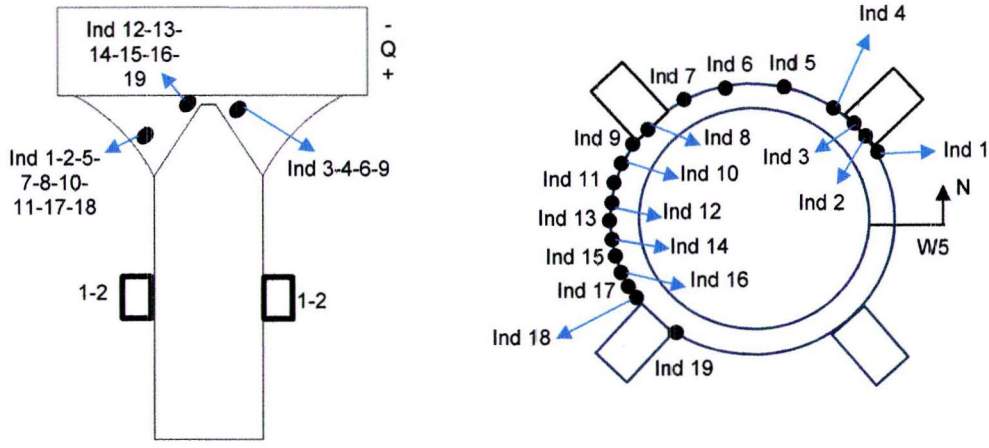
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6 ☐

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90495/1/CWTP009/ W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
7	-5 dB	/	110	16	/	+20	/	/	11900	W5	157	1	R	59°	PLANAR
8	-4 dB	/	280	39	/	+30	/	/	13560	W5	166	1	R	59°	PLANAR
9	+3 dB	/	90	25	/	+40	/	/	14090	W5	196	2	R	67°	PLANAR
10	-2 dB	/	86	48	/	+42	/	/	14970	W5	101	1	R	59°	PLANAR
11	-1 dB	/	60	36	/	+30	/	/	14970	W5	169	1	R	59°	PLANAR
12	-5 dB	/	150	30	/	+37	/	/	15230	W5	183	2	R	67°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI ROSETTI MARINO Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002458	Pag 4 di 5
		Data/date: 25/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90495

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☒ 70°

3 ☐

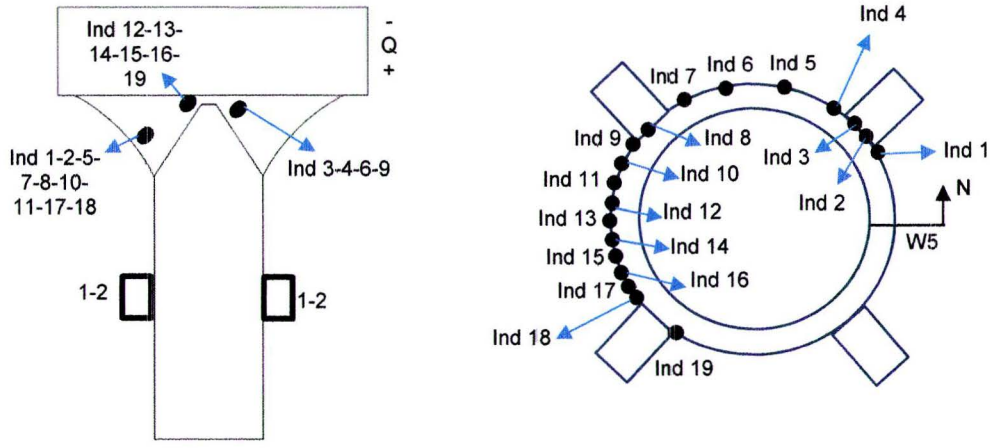
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6 ☐

7 ☐

90495/1/CWTP009/ W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
13	-1 dB	/	420	25	/	+32	/	/	15610	W5	191	2	R	67°	PLANAR
14	+3 dB	/	610	32	/	+40	/	/	16107	W5	180	2	R	67°	PLANAR
15	+2 dB	/	980	30	/	+41	/	/	16802	W5	187	2	R	67°	VOLUMETRIC
16	-2 dB	/	210	27	/	+29	/	/	18090	W5	191	2	R	67°	PLANAR
17	-2 dB	/	1060	39	/	+18	/	/	18510	W5	164	1	R	59°	PLANAR
18	-1 dB	/	170	38	/	+19	/	/	18880	W5	172	2	R	67°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712		

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002458	Pag 5 di 5
		Data/date: 25/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☒ 70°

3 ☐

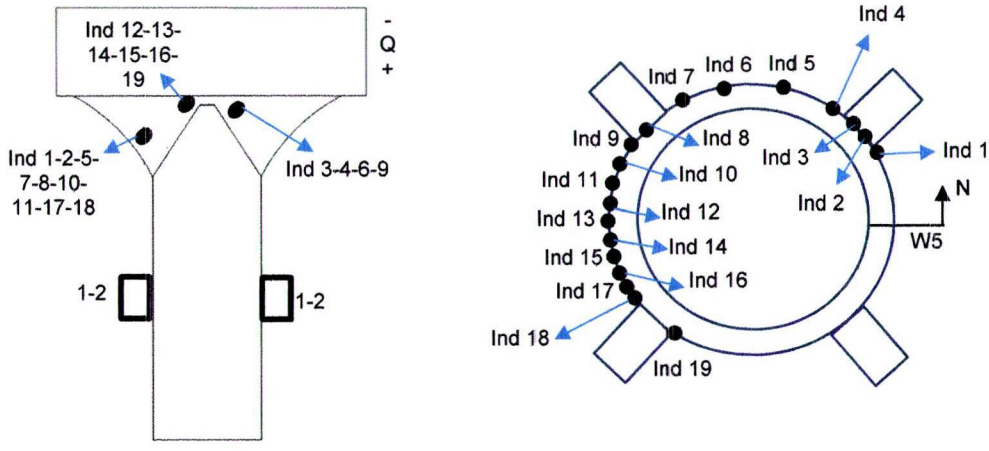
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5 ☐

6 ☐

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90495/1/CWTP009/ W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
19	-2 dB	/	80	35	/	+28	/	/	19100	W5	168	1	R	59°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI ROSETTI MIRKO Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002454	132	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.837 Mt	A
002455	134	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.837 Mt	A
002456	144	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.837 Mt	A
002457	146	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.837 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RAUTOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712 Company Controller			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002453	1	123A90-FDL-ST-DD90204/ 1	CWBR027	550,000 MM	20,00	2A	FCAW	2.275 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002447	1	123A90-FDL-ST-DD90287/ 1	CWLG001	271,100 MM	11,10	2A	FCAW	0.857 Mt	A
002448	2	123A90-FDL-ST-DD90287/ 1	CWLG001	271,100 MM	11,10	2A	FCAW	0.857 Mt	A
002449	1	123A90-FDL-ST-DD90204/ 1	CWBR004	323,900 MM	12,70	2A	FCAW	1.017 Mt	A
002450	2	123A90-FDL-ST-DD90204/ 1	CWBR004	323,900 MM	12,70	2A	FCAW	1.194 Mt	A
002451	1	123A90-FDL-ST-DD90204/ 1	CWBR008	323,900 MM	12,70	2A	FCAW	1.238 Mt	A
002452	2	123A90-FDL-ST-DD90204/ 1	CWBR008	323,900 MM	12,70	2A	FCAW	1.048 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RT-TT-PAUT-TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002446	2	123A90-FDL-ST-DD90193/ 1	CWBR027	550,000 MM	20,00	2A	FCAW	1.727 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+3	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR
Olympus	662050	4	8x9	45°	45°	10	38.50	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002445	2	123A90-FDL-ST-DD90204/ 1	CWLG020	700,000 MM	20,00	1C	FCAW+SAW	2.198 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002444	56	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	1A	GTAW+FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company / CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RT-UT-TOFD Prepared / Name	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002443	1	123A90-FDL-ST-DD90742/ 1	CWTPW107	220,000 MM	12,50	2A	FCAW	0.080 MI	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-11-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002442	23	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	5.392 Mt	R

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002442	Pag 2 di 2
		Data/date: 07/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90496**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☒ 70°

3 ☐

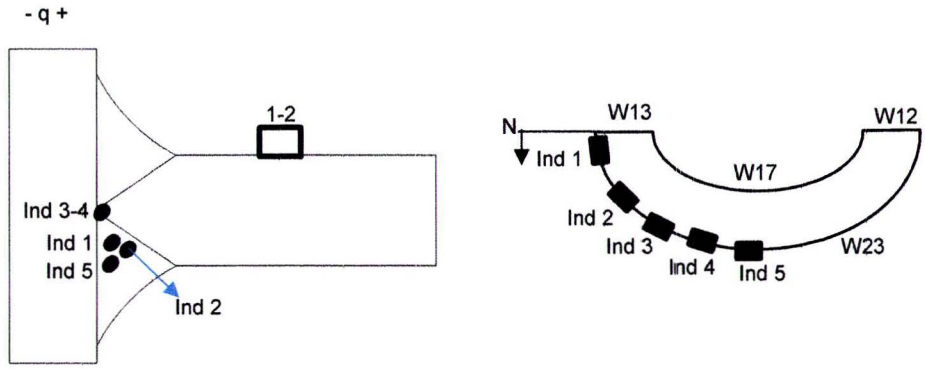
4 ☐

5 ☐

6 ☐

7 ☐

90496/1/CWTP009/ W23



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	230	31	/	20	/	/	**N**	**W13**	75	2	**R**	67°	VOLUMETRIC
2	+10 dB	/	210	31	/	15	/	/	**440**	**W13**	77	2	**R**	67°	VOLUMETRIC
3	-3 dB	/	330	28	/	0÷5	/	/	**800**	**W13**	74	2	**R**	67°	PLANAR
4	0 dB	/	180	25	/	0	/	/	**1580**	**W13**	60	2	**R**	67°	PLANAR
5	+1 dB	/	200	40	/	15	/	/	**2400**	**W13**	107	1	**R**	59°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002441	19	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	3.020 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator Assistant	Company CONTROL ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002440	68	123A90-FDL-ST-DD90655/ 1	CWTPWT001	2.220,000 MM	25,00	2A	FCAW	0.440 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RT-TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002439	25	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	5.392 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002438	15	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	1.508 MI	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO SPA Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002437	22	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	5.392 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

Company: ROSETTI MARINO SPA
Signed: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002436	6	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	1A	GTAW+FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

Company: CONTROL
Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002434	3	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	1A	GTAW+FCAW	0.638 Mt	A
002435	4	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	1A	GTAW+FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	57°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002433	16	123A90-FDL-ST-DD90496/ 1	CWTP009	3.850,000 MM	50,00	2A	FCAW	0.450 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RT-ET-PAUT-TOFD Operator	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002432	12	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	1.508 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO / Sheet n° 1 of 3

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002431	24	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	5.392 Mt	R

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Control MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002431	Pag 2 di 3
		Data/date: 05/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90496**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☐

3 ☐

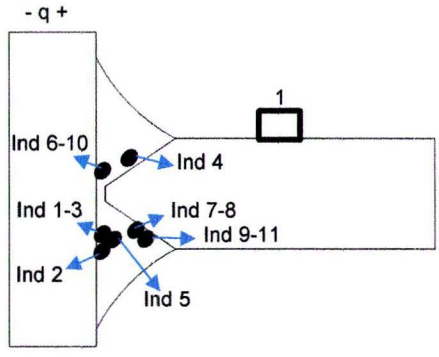
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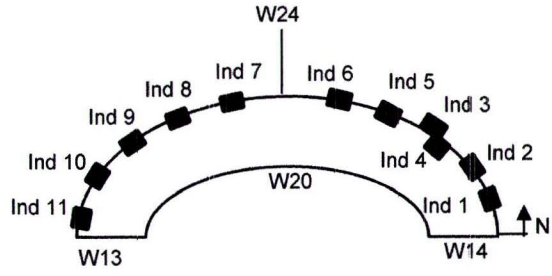
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90496/1/CWTP009/ W24





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-1 dB	/	90	36	/	0	/	/	520	W13	67	1	R	59°	PLANAR
2	-6 dB	/	170	42	/	0	/	/	975	W13	80	1	R	59°	PLANAR
3	-8 dB	/	100	31	/	0	/	/	1300	W13	59	1	R	59°	PLANAR
4	-6 dB	/	55	24	/	18	/	/	1300	W13	43	1	R	59°	PLANAR
5	-7 dB	/	130	40	/	15	/	/	2060	W13	75	1	R	59°	PLANAR
6	-3 dB	/	85	22	/	0	/	/	2440	W13	57	1	R	59°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
ROSETTI MIRKO Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

MIRKO ROSETTI

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002431	Pag 3 di 3
		Data/date: 05/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90496**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☐

3 ☐

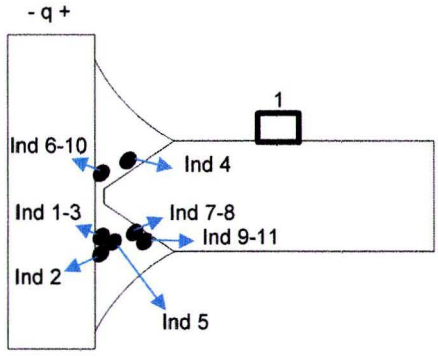
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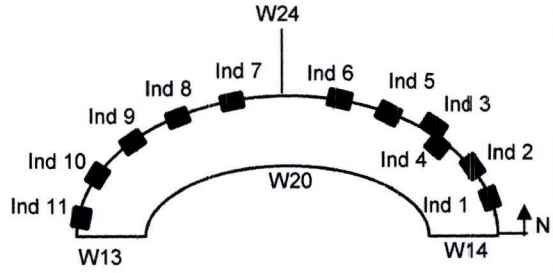
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90496/1/CWTP009/ W24





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
7	-1 dB	/	85	36	/	28	/	/	3490	W13	67	1	R	59°	PLANAR
8	-6 dB	/	130	36	/	28	/	/	3630	W13	74	1	R	59°	PLANAR
9	-3 dB	/	120	43	/	30	/	/	4000	W13	81	1	R	59°	PLANAR
10	-6 dB	/	90	24	/	0	/	/	4745	W13	45	1	R	59°	PLANAR
11	-7 dB	/	130	40	/	15	/	/	2060	W13	75	1	R	59°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI ROSETTI MIRKO Level 2 ISO9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002430	21	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	3.020 Mt	R

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002430	Pag 2 di 2
		Data/date: 06/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90496**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☒ 70°

3 ☐

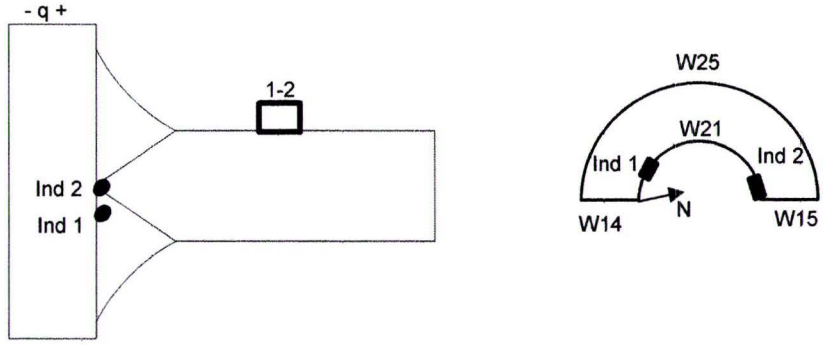
4 ☐

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7 ☐

90496/1/CWTP009/ W21



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-5 dB	/	380	28÷34	/	0÷4	/	/	520	W14	54	1	R	59°	VOLUMETRIC
2	-7 dB	/	80	25	/	0÷4	/	/	2490	W14	59	2	R	67°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI ROSETTI Mirko Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002429	20	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	3.020 Mt	R

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Completed by: ROSETTI MIRKO Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002429	Pag 2 di 2
		Data/date: 05/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90496**

SCHIZZO - Sketch

Scanning Position

1 ☒ 60°

2 ☐

3 ☐

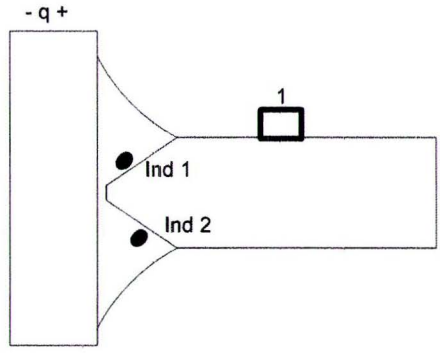
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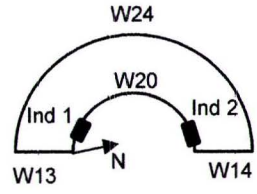
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90496/1/CWTP009/ W20





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-6 dB	/	85	20	/	25	/	/	**75**	**W13**	75	1	**R**	59°	PLANAR
2	0 dB	/	200	43	/	35	/	/	**2640**	**W13**	102	1	**R**	59°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI ROSETTI MIRKO Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002428	18	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	3.020 MI	R

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 - SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002428	Pag 2 di 2
		Data/date: 05/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90496**

SCHIZZO - Sketch

Scanning Position

1 ☒ 45°

2 ☐

3 ☐

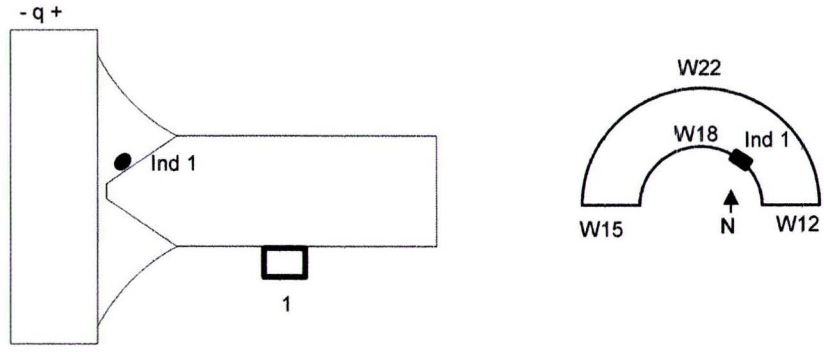
4 ☐

5 ☐

6 ☐

7 ☐

90496/1/CWTP009/ W18



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	0 dB	/	120	35÷40	/	15	/	/	**1125**	**W12**	54	1	**R**	45°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
ROSETTI MIRKO **MIRKO ROSETTI** Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002427	13	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	1.508 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe Index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	12	45.40	+6	+2	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002426	14	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	1.508 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 07-11-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 126-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002425	17	123A90-FDL-ST-DD90496/ 1	CWTP009	3.850,000 MM	50,00	2A	FCAW	0.450 Mt	R

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

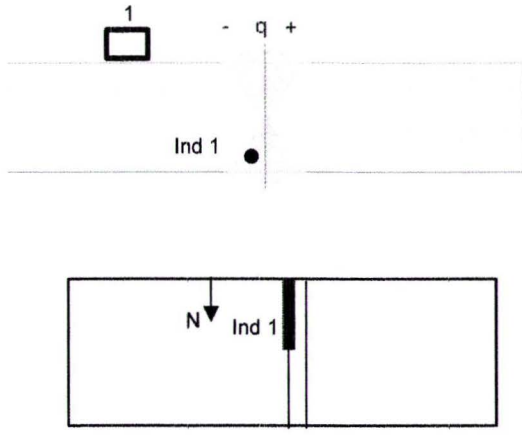
ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002425	Pag 2 di 2
		Data/date: 07/11/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90496**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°
2 ☒
3 ☒
4 ☒
5 ☐
6 ☐
7 ☐

90496/1/CWTP009/ W17



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+1 dB	/	100	30	/	-15	/	/	**0**	↓	70	1	**R**	67°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI ROSETTI MIRKO Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002424	2	123A90-FDL-ST-DD90762/ 1	CWCF001	323,900 MM	28,58	2A	FCAW	0.509 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002420	2	123A90-FDL-ST-DD90650/ 1	CWPAUP018	273,100 MM	12,70	2A	FCAW	0.460 MT	A
002421	1	123A90-FDL-ST-DD90650/ 1	CWPAUP009	323,900 MM	12,70	2A	FCAW	0.400 MT	A
002422	1	123A90-FDL-ST-DD90650/ 1	CWPAUP020	273,100 MM	12,70	2A	FCAW	0.370 MT	A
002423	2	123A90-FDL-ST-DD90650/ 1	CWPAUP020	273,100 MM	12,70	2A	FCAW	0.330 MT	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
-Repair length at least 50mm on each side of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002419	2	123A90-FDL-ST-DD90650/ 1	CWPAUP004	406,400 MM	15,90	2A	FCAW	0.745 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
-Repair length at least 50mm on each side of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002415	2	123A90-FDL-ST-DD90650/ 1	CWPAUP021	273,100 MM	12,70	2A	FCAW	0.521 Mt	A
002416	1	123A90-FDL-ST-DD90650/ 1	CWPAUP019	273,100 MM	12,70	2A	FCAW	0.564 Mt	A
002417	1	123A90-FDL-ST-DD90650/ 1	CWPAUP018	273,100 MM	12,70	2A	FCAW	0.564 Mt	A
002418	1	123A90-FDL-ST-DD90650/ 1	CWPAUP010	323,900 MM	12,70	2A	FCAW	0.866 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tecnico CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002414	2	123A90-FDL-ST-DD90650/ 1	CWPAUP010	575,000 MM	12,70	2A	FCAW	0.750 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002410	2	123A90-FDL-ST-DD90650/ 1	CWPAUP007	457,200 MM	19,10	2A	FCAW	0.325 MT	A
002411	2	123A90-FDL-ST-DD90650/ 1	CWPAUP006	457,200 MM	19,10	2A	FCAW	0.565 MT	A
002412	2	123A90-FDL-ST-DD90650/ 1	CWPAUP005	457,200 MM	19,10	2A	FCAW	0.495 MT	A
002413	2	123A90-FDL-ST-DD90650/ 1	CWPAUP008	457,200 MM	19,10	2A	FCAW	0.485 MT	A

NOTE / Remarks -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
-Repair length at least 50mm on each side of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S460	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	OMNIX3-PA32128PR	QC-0074642	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	37121	4	8x9	60°	59°	12	44.00	+6	+4	SHEAR
GE	85700	4	8x9	70°	68°	12	40.00	+6	+4	SHEAR
GE (base mat.)	73147	4	3,5x10	0°	0°	/	52.00	/	/	LONG
Krautkramer	18789	4	8x9	45°	45°	11	37.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002409	1	123A90-FDL-ST-DD90754/ 1	CWTPSG003	660,000 MM	30,00	1D	GMAW+SAW	1.450 Mt	A

NOTE / Remarks -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICOLA QUAGLIA Company: CONTROL SNC VT-PT-MT-RT-UT-TOFD/PA UNI EN ISO 9712 VT-PT-MT-UT Lev. 2 SNT TC-1A CSWIP Welding Inspector Operator: Quaglia Nicola	ROSETTI MARINO SPA Lev. 2 Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S460	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	OMNIX3-PA32128PR	QC-0074642	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	37121	4	8x9	60°	59°	12	44.00	+6	+4	SHEAR
GE	85700	4	8x9	70°	68°	12	40.00	+6	+4	SHEAR
GE (Mat. Base)	73147	4	3,5x10	0°	0°	/	52.00	/	/	LONG
Krautkramer	18789	4	8x9	45°	45°	11	37.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002408	1	123A90-FDL-ST-DD90754/ 1	CWTPSG002	660,000 MM	30,00	1D	GMAW+SAW	1.450 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICOLA QUAGLIA Company: CONTROL SNC VT-PT-MT-RT-UT-TOFD/PA Lev.2 UNI EN ISO 9712 VT-PT-MT-UT Lev. 2 SNT TC-1A CSWIP Welding Inspector Operator: Quaglia Nicola	ROSETTI MARINO SPA Camandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	OMNIX3-PA32128PR	QC-0074642	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	37121	4	8x9	60°	59°	12	44.00	+6	+4	SHEAR
GE	85700	4	8x9	70°	68°	12	40.00	+6	+4	SHEAR
GE (Mat. Base)	73147	4	3,5x10	0°	0°	/	52.00	/	/	LONG
Krautkramer	18789	4	8x9	45°	45°	11	37.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002407	1	123A90-FDL-ST-DD90753/ 1	CWTPSG001	660,000 MM	20,00	1D	GMAW+SAW	0.758 Mt	A

NOTE / Remarks -Piece temperature: from 18°C.

CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICOLA QUAGLIA CONTROL SNC VT-PT-MT-RT-UT-TOFD/PA Lev. 2 UNI EN ISO 9712 VT-PT-MT-UT Lev. 2 SNT TC-1A CSWIP Welding Inspector	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	OMNIX3-PA32128PR	QC-0074642	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	37121	4	8x9	60°	59°	12	44.00	+6	+4	SHEAR
GE	85700	4	8x9	70°	68°	12	40.00	+6	+4	SHEAR
GE (base mat.)	73147	4	3,5x10	0°	0°	/	52.00	/	/	LONG
Krautkramer	18789	4	8x9	45°	45°	11	37.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002406	1	123A90-FDL-ST-DD90755/ 1	CWTPSG004	660,000 MM	20,00	1D	GMAW+SAW	0.761 Mt	A

NOTE / Remarks -Piece temperature: from 18°C.

TECNICO END Livello 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICOLA QUAGLIA CONTROL SNC VT-PT-MT-PT - CONTROLLO D/PA Lev. 2 UNI EN ISO 9712 VT-PT-MT-UT Lev. 2 SNT TC-1A CSWIP Welding Inspector Operatore - Quaglia Nicola	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
KRAUTKRAMER	KKUSM36	19027618	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 119-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
Krautkramer	06631	4	8x9	60°	60°	12	42.00	+6	+4	SHEAR
Krautkramer	22679	4	8x9	70°	68°	12	44.00	+6	+2	SHEAR
PAN (Base Mat.)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002404	31	123A90-FDL-ST-DD90496/ 1	CWTP009	1.940,000 MM	30,00	2A	FCAW	0.300 Mt	A
002405	32	123A90-FDL-ST-DD90496/ 1	CWTP009	1.940,000 MM	30,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA ASNT - EN 473 - ISO9712 Company: CONTROL Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002402	2	123A90-FDL-ST-DD90650/ 1	CWPAUP001	406,400 MM	15,90	2A	FCAW	1.276 Mt	A
002403	2	123A90-FDL-ST-DD90650/ 1	CWPAUP002	406,400 MM	15,90	2A	FCAW	1.276 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comanducci Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002399	1	123A90-FDL-ST-DD90650/ 1	CWPAUP011	323,900 MM	12,70	2A	FCAW	0.866 Mt	A
002400	1	123A90-FDL-ST-DD90650/ 1	CWPAUP012	323,900 MM	12,70	2A	FCAW	0.866 Mt	A
002401	1	123A90-FDL-ST-DD90650/ 1	CWPAUP021	273,100 MM	12,70	2A	FCAW	0.564 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002398	2	123A90-FDL-ST-DD90650/ 1	CWPAUP009	575,000 MM	12,70	2A	FCAW	0.750 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002397	1	123A90-FDL-ST-DD90762/ 1	CWCF001	323,900 MM	28,58	2A	FCAW	0.509 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL s.n.c Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002395	2	123A90-FDL-ST-DD90650/ 1	CWPAUP011	575,000 MM	12,70	2A	FCAW	0.750 Mt	A
002396	2	123A90-FDL-ST-DD90650/ 1	CWPAUP012	575,000 MM	12,70	2A	FCAW	0.750 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002393	9	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	2A	FCAW	0.638 MT	A
002394	55	123A90-FDL-ST-DD90762/ 1	CWCF001	323,900 MM	28,58	2A	FCAW	0.509 MT	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002389	2	123A90-FDL-ST-DD90472/ 1	CWWS013	273,100 MM	11,10	2A	FCAW	0.857 MT	A
002390	2	123A90-FDL-ST-DD90472/ 1	CWWS014	273,100 MM	11,10	2A	FCAW	0.857 MT	A
002391	2	123A90-FDL-ST-DD90474/ 1	CWWS017	273,100 MM	11,10	2A	FCAW	0.857 MT	A
002392	2	123A90-FDL-ST-DD90475/ 1	CWWS012	273,100 MM	11,10	2A	FCAW	0.857 MT	A

NOTE / Remarks -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002387	2	123A90-FDL-ST-DD90471/ 1	CWWS010	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002388	2	123A90-FDL-ST-DD90471/ 1	CWWS011	273,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject.
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (weld ex)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002386	1	123A90-FDL-ST-DD90650/ 1	CWPAUP009	323,900 MM	12,70	2A	FCAW	0.866 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002386	Pag 2 di 2
		Data/date: 22/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90650**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

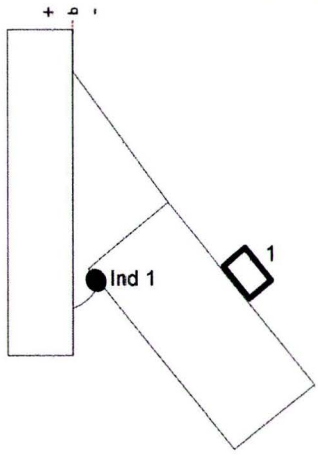
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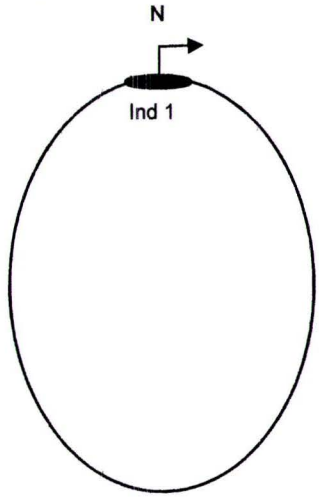
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90650/1/CWPAUP009/ W1





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	0 dB	/	100	14	/	10	/	/	-50	N	40	1	R	68°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
TOMASI NICO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (weld ex)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002385	2	123A90-FDL-ST-DD90650/ 1	CWPAUP019	273,100 MM	12,70	2A	FCAW	0.521 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (weld ex)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002384	1	123A90-FDL-ST-DD90650/ 1	CWPAUP020	273,100 MM	12,70	2A	FCAW	0.564 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002384	Pag 2 di 2
		Data/date: 22/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90650

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

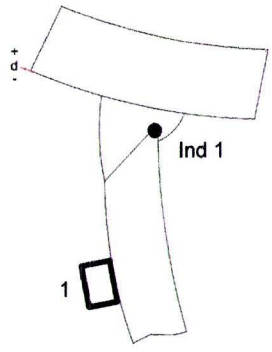
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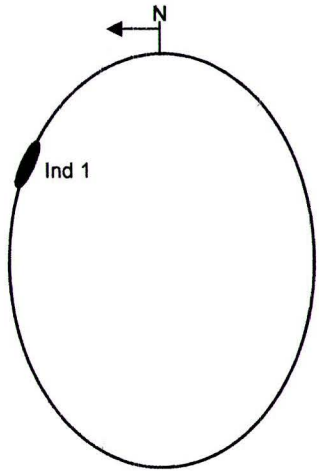
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90650/1/CWPAUP020/ W1





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	70	10	/	10	/	/	200	N	33	1	R	68°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
TOMASI NICO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002383	2	123A90-FDL-ST-DD90650/ 1	CWPAUP020	273,100 MM	12,70	2A	FCAW	0.521 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002383	Pag 2 di 2
		Data/date: 17/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90650

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

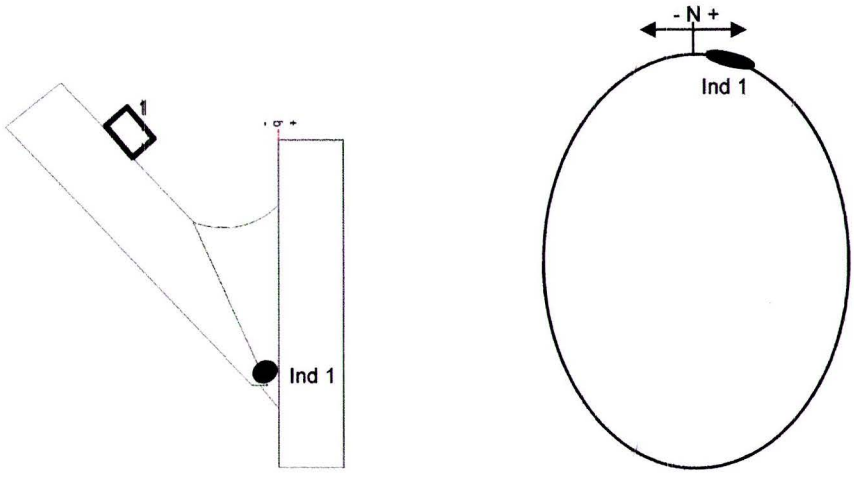
4 ☐

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6 ☐

7 ☐

90650/1/CWPAUP020/ W2



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	30	12	/	+5	/	/	+10	N	37/44	1	R	69°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MASSIMILIANO MORANDI CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002382	2	123A90-FDL-ST-DD90650/ 1	CWPAUP018	273,100 MM	12,70	2A	FCAW	0.521 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002382	Pag 2 di 2
		Data/date: 21/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90650**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

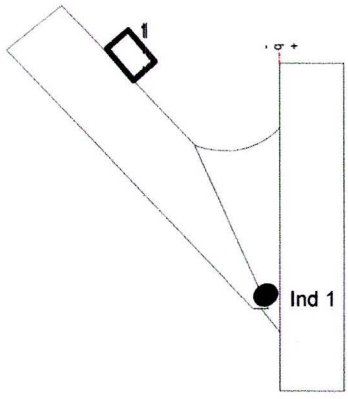
4 ☐

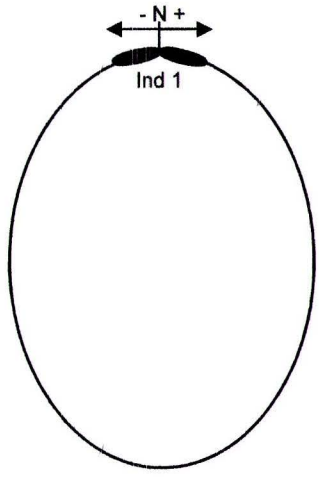
5 ☐

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7 ☐

90650/1/CWPAUP018/ W2





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-5 dB	/	160	13	/	+5	/	/	-60	N	37/51	1	R	69°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MASSIMILIANO MORANDI CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002381	2	123A90-FDL-ST-DD90650/ 1	CWPAUP005	457,200 MM	19,10	2A	FCAW	1.435 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002381	Pag 2 di 2
		Data/date: 17/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90650

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

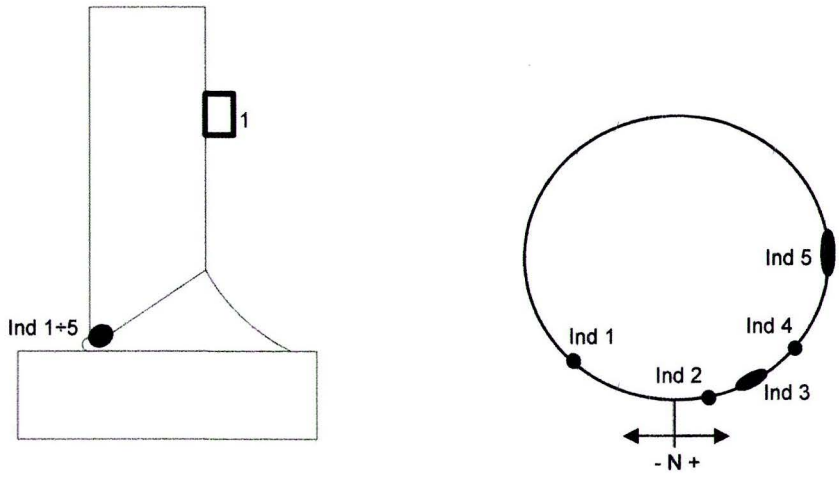
4 ☐

5 ☐

6 ☐

7 ☐

90650/1/CWPAUP005/ W2



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-4 dB	/	30	17/19	/	+5/10	/	/	-300	N	59/65	1	R	69°	VOLUMETRIC
2	-3 dB	/	20	17/19	/	+5/10	/	/	+10	N	59/65	1	R	69°	PLANAR
3	-6 dB	/	40	17/19	/	+5/10	/	/	+120	N	59/65	1	R	69°	VOLUMETRIC
4	-3 dB	/	25	17/19	/	+5/10	/	/	+200	N	59/65	1	R	69°	VOLUMETRIC
5	-6 dB	/	80	17/19	/	+5/10	/	/	+330	N	59/65	1	R	69°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MASSIMILIANO MORANDI CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002380	2	123A90-FDL-ST-DD90650/ 1	CWPAUP004	406,400 MM	15,90	2A	FCAW	1.276 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002380	Pag 2 di 2
		Data/date: 21/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90650**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70/60°

2 ☐

3 ☐

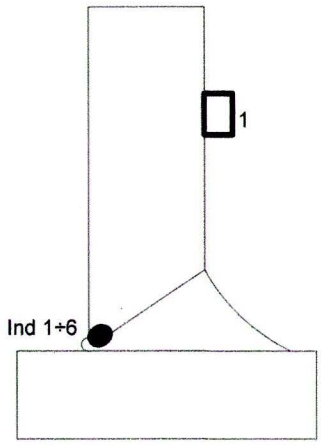
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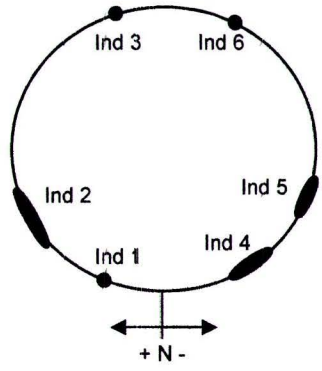
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6 ☐

7 ☐

90650/1/CWPAUP004/ W2





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+1 dB	/	15	12-15	/	0/5	/	/	**+100**	**N+**	/	1	**R**	69°	PLANAR
2	-1÷-9 dB	/	190	12-15	/	0/5	/	/	**+160**	**N+**	/	1	**R**	69°	VOLUMETRIC
3	-1 dB	/	30	12-15	/	0+5	/	/	**+640**	**N+**	/	1	**R**	69°	VOLUMETRIC
4	-5 dB	/	100	12-15	/	0+5	/	/	**-90**	**N-**	/	1	**R**	69°	VOLUMETRIC
5	-6 dB	/	80	12-15	/	0+5	/	/	**-270**	**N-**	/	1	**R**	69°	VOLUMETRIC
6	+2 dB	/	30	12-15	/	0+5	/	/	**-450**	**N-**	/	1	**R**	69°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MASSIMILIANO MORANDI CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (weld ex)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002379	2	123A90-FDL-ST-DD90650/ 1	CWPAUP003	406,400 MM	15,90	2A	FCAW	1.276 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002378	2	123A90-FDL-ST-DD90650/ 1	CWPAUP008	457,200 MM	19,10	2A	FCAW	1.435 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002378	Pag 2 di 2
		Data/date: 17/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90650**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70/60°

2 ☐

3 ☐

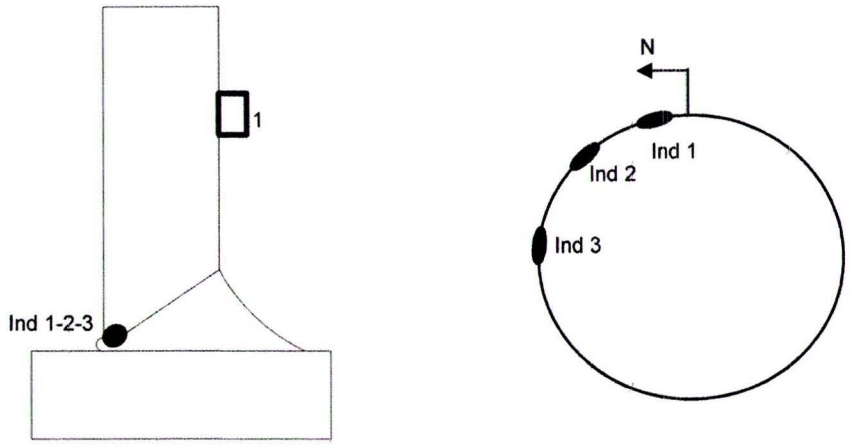
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5 ☐

6 ☐

7 ☐

90650/1/CWPAUP008/ W2



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-3 dB	/	25	17/19	/	+5/10	/	/	+20	N	59/65	1	R	69°	VOLUMETRIC
2	-4 dB	/	80	17/19	/	+5/10	/	/	+120	N	59/65	1	R	69°	VOLUMETRIC
3	+1 dB	/	80	17/19	/	+5/10	/	/	+240	N	59/65	1	R	69°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MASSIMILIANO MORANDI CONTROL SRC	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002377	2	123A90-FDL-ST-DD90650/ 1	CWPAUP007	457,200 MM	19,10	2A	FCAW	1.435 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002377	Pag 2 di 2
		Data/date: 16/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90650**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70/60°

2 ☐

3 ☐

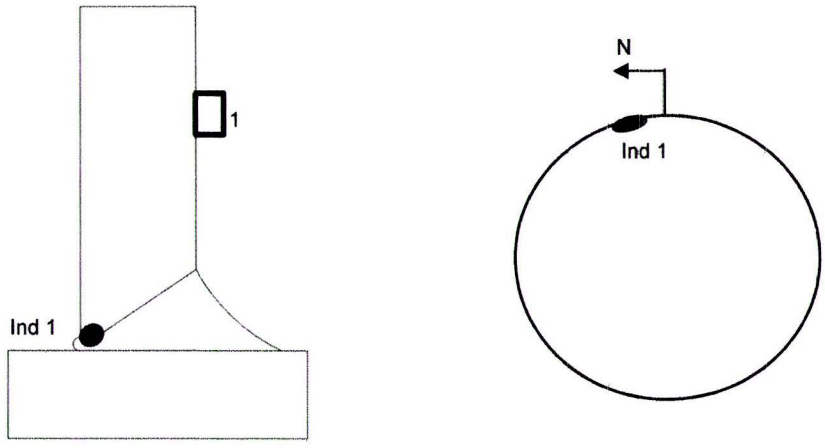
4 ☐

5 ☐

6 ☐

7 ☐

90650/1/CWPAUP007/ W2



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+3 dB	/	25	17/19	/	+5/10	/	/	+20	N	48/58	1	R	69°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MASSIMILIANO MORANDI CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-10-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002376	2	123A90-FDL-ST-DD90650/ 1	CWPAUP006	457,200 MM	19,10	2A	FCAW	1.435 Mt	R

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002376	Pag 2 di 2
		Data/date: 16/10/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90650**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70/60°

2 ☐

3 ☐

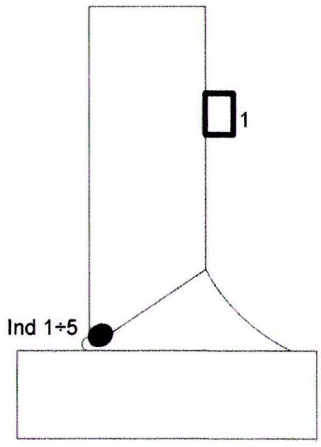
4 ☐

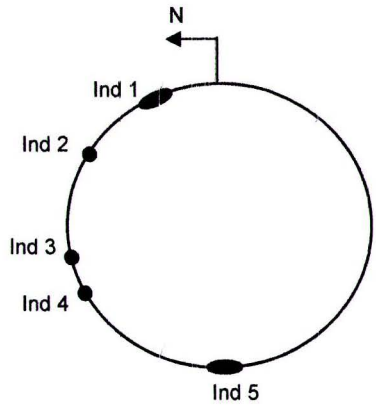
5 ☐

6 ☐

7 ☐

90650/1/CWPAUP006/ W2





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-3/6 dB	/	120	14-19	/	5-10	/	/	**110**	**N**	44/58	1	**R**	69°	VOLUMETRIC
2	+1 dB	/	35	17/19	/	0+5	/	/	**350**	**N**	53/66	1	**R**	69°	PLANAR
3	-3dB	/	25	17/19	/	0+5	/	/	**490**	**N**	53/66	1	**R**	69°	VOLUMETRIC
4	+1dB		15	17/19		0+5			**550**	**N**	53/66	1	**R**	69°	PLANAR
5	+5dB		70	17/19		0+5			**700**	**N**	58/67	1	**R**	69°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MASSIMILIANO MORANDI CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-10-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002374	1	123A90-FDL-ST-DD90199/ 1	CWULT001	800,000 MM	30,00	1A	GTAW+FCAW	2.504 Mt	A
002375	1	123A90-FDL-ST-DD90201/ 1	CWULT004	800,000 MM	30,00	2A	FCAW	2.504 Mt	A

NOTE / Remarks: -Piece temperature: from 18°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002372	1	123A90-FDL-ST-DD90199/ 1	CWULT002	800,000 MM	30,00	1A	GTAW+FCAW	2.504 MM	A
002373	1	123A90-FDL-ST-DD90201/ 1	CWULT003	800,000 MM	30,00	1A	GTAW+FCAW	2.504 MM	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002370	1	123A90-FDL-ST-DD90651/ 1	CWPAUP039	219,100 MM	12,70	2A	FCAW	0.901 Mt	A
002371	2	123A90-FDL-ST-DD90651/ 1	CWPAUP039	219,100 MM	12,70	2A	FCAW	0.901 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
-MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002364	1	123A90-FDL-ST-DD90651/ 1	CWPAUP032	219,100 MM	12,70	2A	FCAW	0.845 Mt	A
002365	2	123A90-FDL-ST-DD90651/ 1	CWPAUP032	219,100 MM	12,70	2A	FCAW	0.845 Mt	A
002366	1	123A90-FDL-ST-DD90651/ 1	CWPAUP033	219,100 MM	12,70	2A	FCAW	0.845 Mt	A
002367	2	123A90-FDL-ST-DD90651/ 1	CWPAUP033	219,100 MM	12,70	2A	FCAW	0.845 Mt	A
002368	1	123A90-FDL-ST-DD90651/ 1	CWPAUP036	219,100 MM	12,70	2A	FCAW	0.901 Mt	A
002369	2	123A90-FDL-ST-DD90651/ 1	CWPAUP036	219,100 MM	12,70	2A	FCAW	0.901 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
-MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Rep. Checked				

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
Operator: Rosetti Mirko
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO SPA
Comandini Massimo
Level III NDT
EN - ISO9712

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002363	1	123A90-FDL-ST-DD90651/ 1	CWPAUP038	219,100 MM	12,70	2A	FCAW	0.901 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
-MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Operator: Rosetti Mirko	Comandini Massimo			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT-TOFD

ROSETTI MARINO SPA
Comandini Massimo
Level III NDT
EN - ISO9712

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002358	2	123A90-FDL-ST-DD90651/ 1	CWPAUP034	219,100 MM	12,70	2A	FCAW	0.845 Mt	A
002359	1	123A90-FDL-ST-DD90651/ 1	CWPAUP035	219,100 MM	12,70	2A	FCAW	0.845 Mt	A
002360	2	123A90-FDL-ST-DD90651/ 1	CWPAUP035	219,100 MM	12,70	2A	FCAW	0.845 Mt	A
002361	1	123A90-FDL-ST-DD90651/ 1	CWPAUP037	219,100 MM	12,70	2A	FCAW	0.901 Mt	A
002362	2	123A90-FDL-ST-DD90651/ 1	CWPAUP037	219,100 MM	12,70	2A	FCAW	0.901 Mt	A

NOTE / Remarks -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
-NUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002357	1	123A90-FDL-ST-DD90651/ 1	CWPAUP034	219,100 MM	12,70	2A	FCAW	0.845 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. -MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002356	2	123A90-FDL-ST-DD90651/ 1	CWPAUP038	219,100 MM	12,70	2A	FCAW	0.901 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. -MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002355	1	123A90-FDL-ST-DD90288/ 1	CWLG014	800,000 MM	20,00	1A	GTAW+FCAW	0.340 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. -Repair length at least 50mm on each side of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-09-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 128-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002354	30	123A90-FDL-ST-DD90495/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	4.860 Mt	R

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. -Repair length at least 50mm on each side of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002354	Pag 2 di 5
		Data/date: 20/09/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90495

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°/60°/45°

2 ☒ 70°/60°/45°

3 ☐

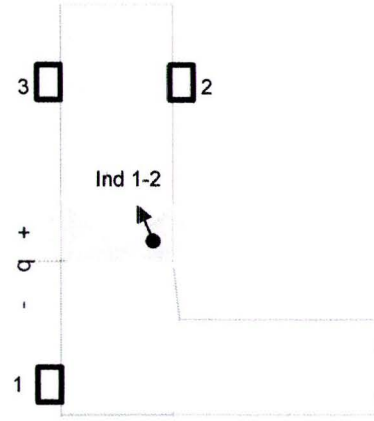
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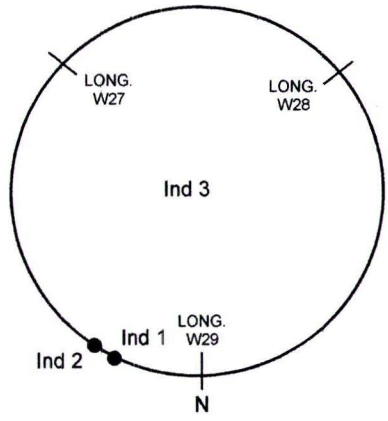
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90495/1/CWTP009/ W30





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+4 dB	/	35	45/51	/	-5/10	/	/	-1560	N	50/53	1-2	R	58°	PLANAR
	-7 dB	/	35	45/51	/	-5/10	/	/	-1560	N	84/95	1-2	R	69°	
2	+1 dB	/	35	45-51	/	-5/10	/	/	-1670	N	50/53	1-2	R	58°	VOLUMETRIC
	-6 dB	/	35	45-51	/	-5/10	/	/	-1670	N	84/95	1-2	R	69°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROLLING	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-09-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002353	68	123A90-FDL-ST-DD90655/ 1	CWTPWT001	2.220,000 MM	25,00	2A	FCAW	3.860 Mt	R

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002353	Pag 2 di 2
		Data/date: 19/09/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	***CROSSWIND***	Disegno / Dwg.	**90655**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°/60°

2 ☒ 70°/60°

3 ☐

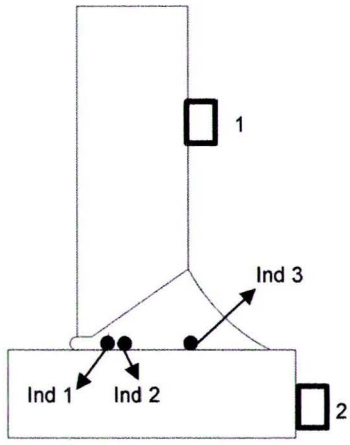
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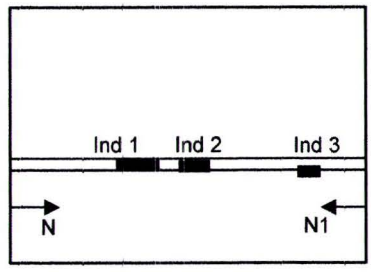
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90655/1/CWTPWT001/ W68





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-6 dB	/	60	16/21	/	0+5	/	/	**1310**	**N**	31/40	1-2	**R**	58°	VOLUMETRIC
	-6 dB	/	60	16/21	/	0+5	/	/	**1310**	**N**	34-47	1-2	**R**	69°	
2	-3 dB	/	70	16/21	/	0+5	/	/	**1450**	**N**	31/40	1-2	**R**	58°	VOLUMETRIC
	-7 dB	/	70	16/21	/	0+5	/	/	**1450**	**N**	34-37	1-2	**R**	69°	
1	-6 dB	/	110	9-11	/	0	/	/	**-290**	**N1**	24-26	2	**R**	58°	VOLUMETRIC+ PLANAR
	-5 dB	/	110	9-11	/	0	/	/	**-290**	**N1**	22	2	**R**	69°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
MORANDI MASSIMILIANO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002352	31	123A90-FDL-ST-DD90495/ 1	CWTP009	4.148,300 MM	30,00	2A	FCAW	7.633 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL .snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 128-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002349	3	123A90-FDL-ST-DD90495/ 1	CWTP009	3.853,700 MM	65,00	2A	FCAW	1.095 Mt	A
002350	4	123A90-FDL-ST-DD90495/ 1	CWTP009	3.853,700 MM	65,00	2A	FCAW	1.095 Mt	A
002351	5	123A90-FDL-ST-DD90495/ 1	CWTP009	3.853,700 MM	65,00	2A	FCAW	1.095 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 128-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002348	2	123A90-FDL-ST-DD90495/ 1	CWTP009	3.853,700 MM	65,00	2A	FCAW	1.095 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Gerardi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 3

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 128-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58èà	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002347	26	123A90-FDL-ST-DD90495/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	21.934 Mt	R

NOTE / Remarks -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002347	Pag 2 di 3
		Data/date: 16/09/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°-60°-45°

2 ☒ 70°-60°-45°

3 ☒ 70°-60°-45°

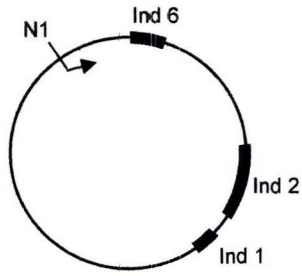
4 ☒ 70°-60°-45°

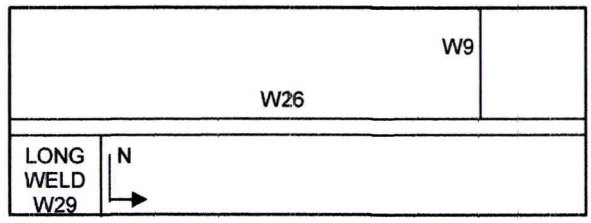
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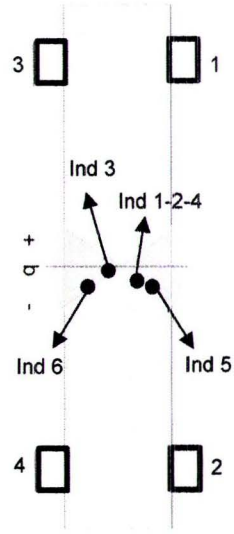
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7 ☐

90495/1/CWTP009/ W26







LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-4 dB	/	130	33/36	/	-5/10	/	/	**+4760**	**N**	61/63	3-2	**R**	58°	VOLUMETRIC
	-5 dB	/	130	33/36	/	-5/10	/	/	**+4760**	**N**	73	3-2	**R**	69°	
2	-1 dB	/	1120	33-37	/	-5/10	/	/	**+5140**	**N**	61-63	3-2	**R**	58°	VOLUMETRIC
	-6 dB	/	1120	33-37	/	-5/10	/	/	**+5140**	**N**	74	3-2	**R**	69°	
3	-4 dB	/	80	27-29	/	-5/10	/	/	**+9450**	**N**	51	3-2	**R**	58°	VOLUMETRIC+ PLANAR
	-7 dB	/	80	27-29	/	-5/10	/	/	**+9450**	**N**	57-64	3-2	**R**	69°	
4	-2 dB	/	180	32-35	/	-5/10	/	/	**+10530**	**N**	61	3-2	**R**	58°	VOLUMETRIC
	-6 dB	/	180	32-35	/	-5/10	/	/	**+10530**	**N**	74	3-2	**R**	69°	
5	+1 dB	/	50	39/42	/	0+5	/	/	**+11820**	**N**	64-67	3-2	**R**	58°	VOLUMETRIC+ PLANAR
	-3 dB	/	50	39/42	/	0+5	/	/	**+11820**	**N**	76-80	3-2	**R**	69°	
6	+1 dB	/	550	46-48	/	0-5	/	/	**-500**	**N1**	88-90	1-2-4	**R**	58°	VOLUMETRIC+ PLANAR
	-2 dB	/	550	46-48	/	0-5	/	/	**-500**	**N1**	101/104	1-2-4	**R**	69°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc Via Aurelia Nord 51/53 - 57016 Rosignano M.mo	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

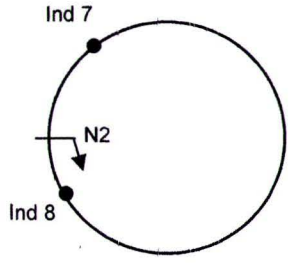
ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002347	Pag 3 di 3
		Data/date: 16/09/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

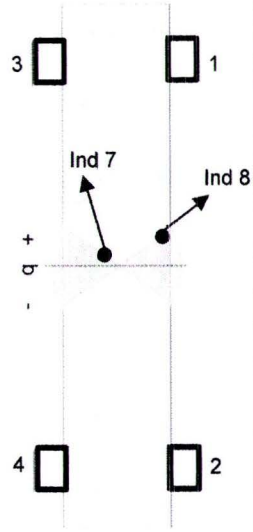
SCHIZZO - Sketch

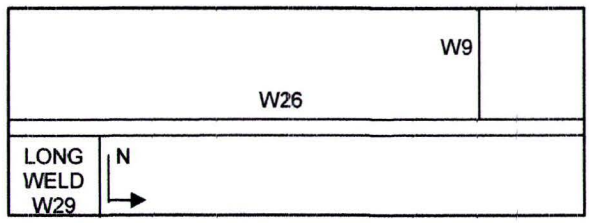
90495/1/CWTP009/ W26

Scanning Position

1 ☒ 70°-60°-45°
2 ☒ 70°-60°-45°
3 ☒ 70°-60°-45°
4 ☒ 70°-60°-45°
5 ☐
6 ☐
7 ☐







LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
7	-6 dB	/	120	26/28	/	0+10	/	/	**15490**	**N**	51	1-4	**R**	58°	VOLUMETRIC
	-10 dB	/	120	26/28	/	0+10	/	/	**15490**	**N**	64	1-4	**R**	69°	
8	+8 dB	/	50	48/51	/	+30	/	/	**1060**	**N2**	100	4-1	**R**	58°	PLANAR
	+4 dB	/	50	48/51	/	+30	/	/	**1060**	**N2**	111	4-1	**R**	69°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc MORANDI MASSIMILIANO	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 128-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002345	27	123A90-FDL-ST-DD90497/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	1.540 Mt	A
002346	29	123A90-FDL-ST-DD90497/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	1.540 Mt	A

NOTE / Remarks: -Piece temperature: from 20°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002344	1	123A90-FDL-ST-DD90650/ 1	CWPAUP001	406,400 MM	15,90	2A	FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	PISTOCCHI ANDREA LEVEL III - ISO 9712 UT - RT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002343	1	123A90-FDL-ST-DD90650/ 1	CWPAUP008	457,200 MM	19,10	2A	FCAW	0.718 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

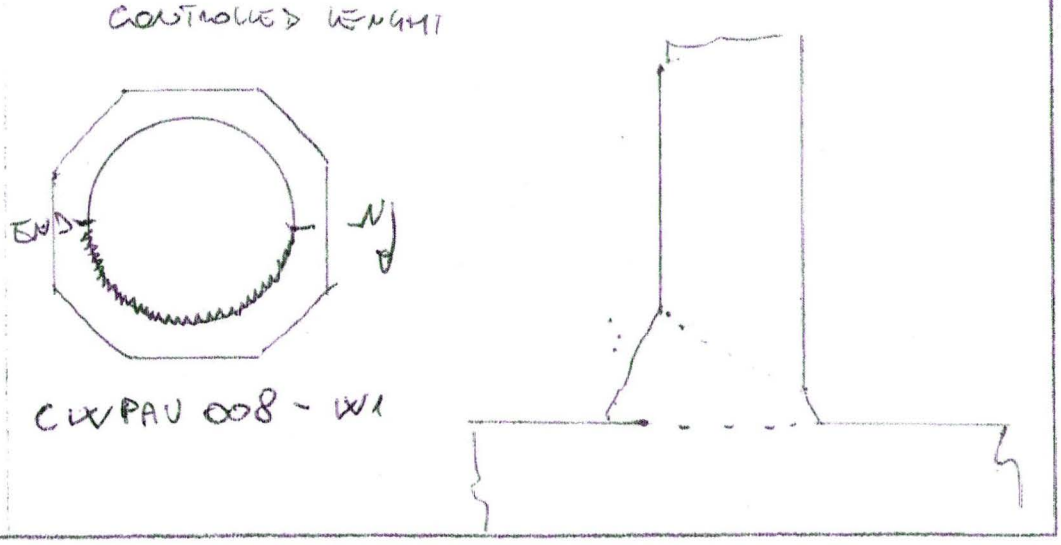
TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 2343	Pag 2 di 2
		Data/date: 16/9/24	Rev. 0
Progetto / Project	BASE LOAD POWER HUB (BLPH)	Commessa / Job	123A90
Cliente / Client	CROSSWIND	Disegno / Dwg.	90650

SCHIZZO - Sketch

Scanning Position

1 ☒ 70/60°
2 ☐
3 ☐
4 ☐
5 ☐
6 ☐
7 ☐



LOCALIZZAZIONE DIFETTI – DIFECTS LOCATION

q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATICN

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002342	1	123A90-FDL-ST-DD90650/ 1	CWPAUP006	457,200 MM	19,10	2A	FCAW	0.718 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

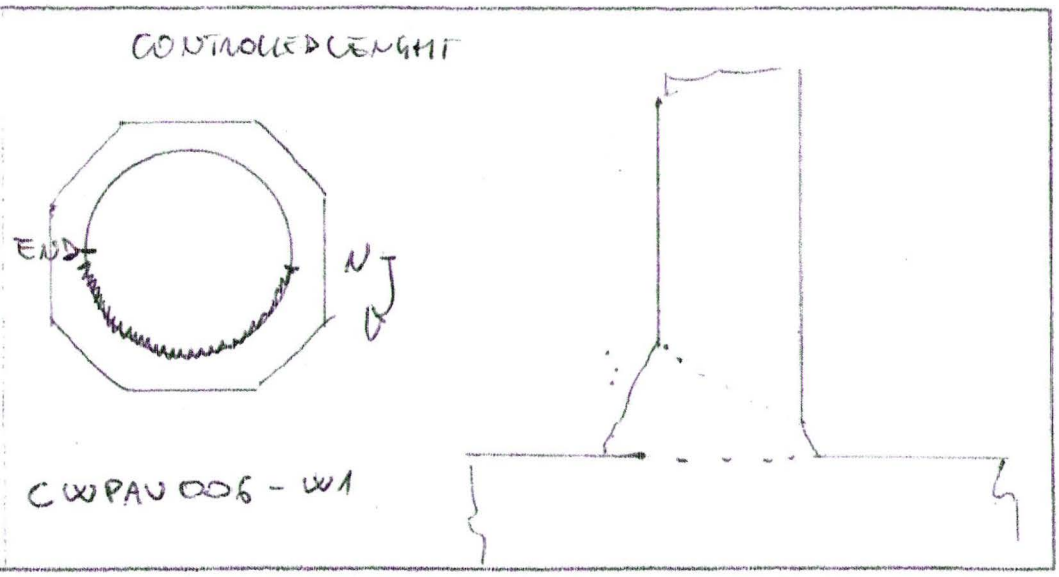
TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 2342	Pag 2 di 2
		Data/date: 16/09/24	Rev. 0
Progetto / Project: BASE LOAD POWER HUB (BLPH)		Commessa / Job: 123A90	
Cliente / Client: CROSSWIND		Disegno / Dwg. 98650	

SCHIZZO - Sketch

Scanning Position

1 ☐
2 ☐
3 ☐
4 ☐
5 ☐
6 ☐
7 ☐



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION

q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL s.n.c	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002341	1	123A90-FDL-ST-DD90650/ 1	CWPAUP003	406,400 MM	15,90	2A	FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Merandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

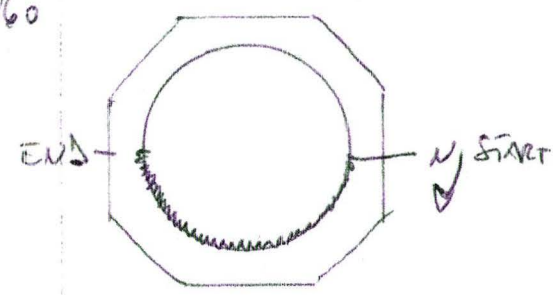
ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 2341	Pag 2 di 2
		Data/date: 16/9	Rev. 0
Progetto / Project	BASE LOAD POWER HUB (BLPH)	Commessa / Job	123A90
Cliente / Client	CROSSWIND	Disegno / Dwg.	90650

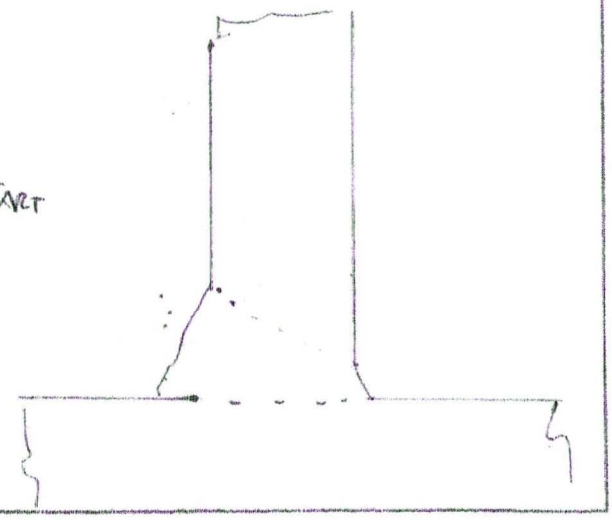
SCHIZZO - Sketch

Scanning Position

1 ☒ 70°/60°
2 ☐
3 ☐
4 ☐
5 ☐
6 ☐
7 ☐

CONTROLLED LENGHT





CWRAV 003/001

LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION

q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	12	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002340	1	123A90-FDL-ST-DD90650/ 1	CWPAUP007	457,200 MM	19,10	2A	FCAW	0.718 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 240	Pag 2 di 2
		Data/date: 16/9/24	Rev. 0
Progetto / Project: BASE LOAD POWER HUB (BLPH)		Commessa / Job: 123A90	
Cliente / Client: CROSSWIND		Disegno / Dwg. 9065	

SCHIZZO - Sketch

Scanning Position

1 ☒ 2960

2 ☐

3 ☐

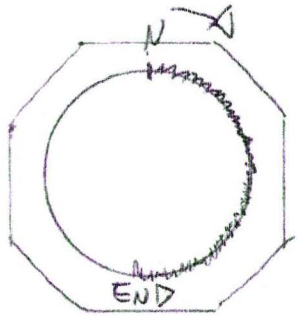
4 ☐

5 ☐

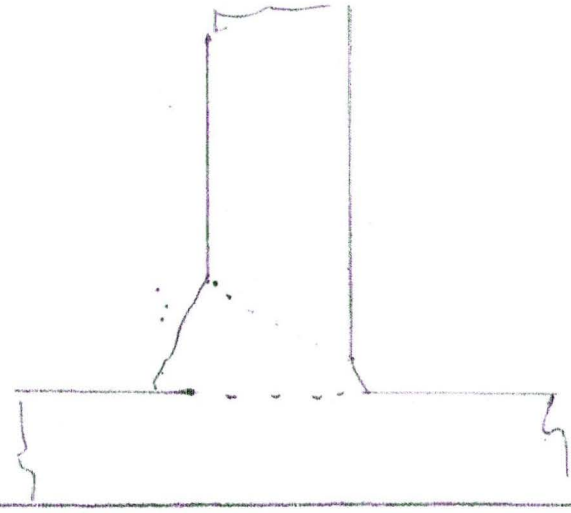
6 ☐

7 ☐

CONTROL - CENTRE



CWPAU007/W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION

q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002339	1	123A90-FDL-ST-DD90650/ 1	CWPAUP005	457,200 MM	19,10	2A	FCAW	0.718 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

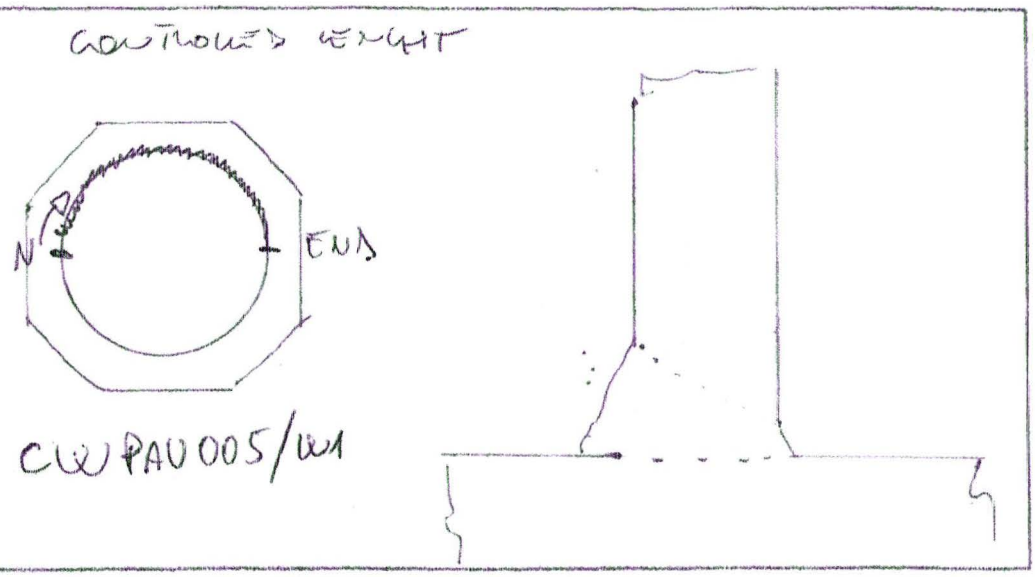
TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 2339	Pag 2 di 2
		Data/date: 16/9/24	Rev. 0
Progetto / Project	BASE LOAD POWER HUB (BLPH)	Commessa / Job	123A90
Cliente / Client	CROSSWIND	Disegno / Dwg.	9065 0

SCHIZZO - Sketch

Scanning Position

1 ☒ 70/60°
2 ☐
3 ☐
4 ☐
5 ☐
6 ☐
7 ☐



LOCALIZZAZIONE DIFETTI -- DIFECTS LOCATION

q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Accepiable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN – ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002338	1	123A90-FDL-ST-DD90650/ 1	CWPAUP004	406,400 MM	15,90	2A	FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 2338	Pag 2 di 2
		Data/date: 16/9/24	Rev. 0
Progetto / Project	BASE LOAD POWER HUB (BLPH)	Commessa / Job	123A90
Cliente / Client	CROSSWIND	Disegno / Dwg.	90650

SCHIZZO - Sketch

Scanning Position

1 ☒ 7dbo

2 ☐

3 ☐

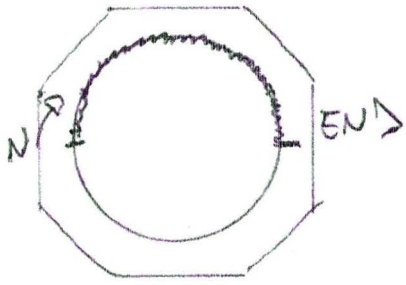
4 ☐

5 ☐

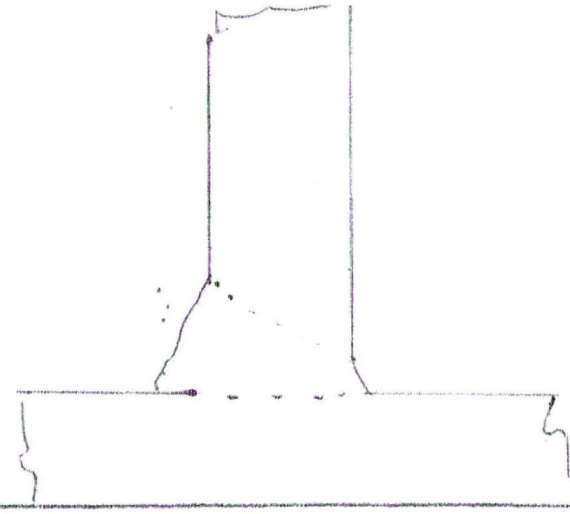
6 ☐

7 ☐

CONTROLLED WEIGHT



CWPAU 004-W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 16-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002337	1	123A90-FDL-ST-DD90650/ 1	CWPAUP002	406,400 MM	15,90	2A	FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

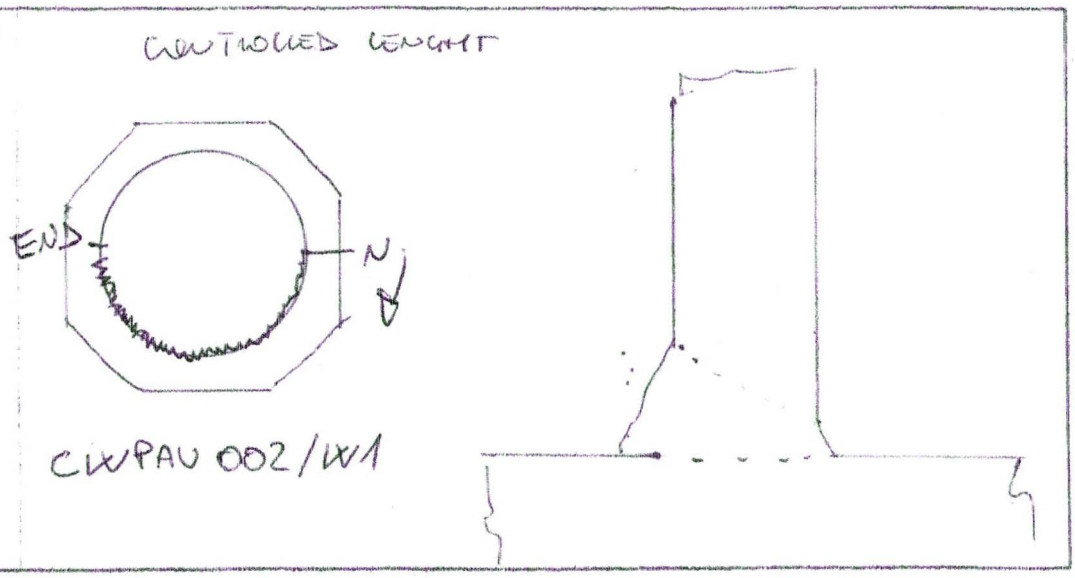
TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 2337	Pag 2 di
		Data/date: 16/9/24	Rev. 0
Progetto / Project	BASE LOAD POWER HUB (BLPH)	Commessa / Job	123A90
Cliente / Client	CROSSWIND	Disegno / Dwg.	0065

SCHIZZO - Sketch

Scanning Position

1 ☒ 70/60°
2 ☐
3 ☐
4 ☐
5 ☐
6 ☐
7 ☐



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 128-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002336	10	123A90-FDL-ST-DD90496/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	2.775 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 9

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	38.90	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002335	1	123A90-FDL-ST-DD90650/ 1	CWPAUB003	600,000 MM	30,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 128-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	69°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	58°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002332	8	123A90-FDL-ST-DD90496/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	2.775 Mt	A
002333	9	123A90-FDL-ST-DD90496/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	2.775 Mt	A
002334	28	123A90-FDL-ST-DD90497/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	1.540 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SYSTEM Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	38.90	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002331	10	123A90-FDL-ST-DD90650/ 1	CWPAUB002	600,000 MM	30,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 9

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	38.90	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002325	5	123A90-FDL-ST-DD90650/ 1	CWPAUB003	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
002326	6	123A90-FDL-ST-DD90650/ 1	CWPAUB004	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
002327	10	123A90-FDL-ST-DD90650/ 1	CWPAUB004	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
002328	1	123A90-FDL-ST-DD90650/ 1	CWPAUB001	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
002329	5	123A90-FDL-ST-DD90650/ 1	CWPAUB001	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
002330	6	123A90-FDL-ST-DD90650/ 1	CWPAUB002	600,000 MM	30,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONSEL Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002324	36	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.264 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material - MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Operator: MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002318	26	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.178 Mt	A
002319	27	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.260 Mt	A
002320	32	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.181 Mt	A
002321	33	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.181 Mt	A
002322	34	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.264 Mt	A
002323	35	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.297 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material - MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

Company CONTROL
Operator Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002312	35	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.297 Mt	A
002313	36	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.264 Mt	A
002314	22	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.178 Mt	A
002315	23	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.264 Mt	A
002316	24	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.297 Mt	A
002317	25	123A90-FDL-ST-DD90394/ 1	CWWN030	291,000 MM	15,00	2A	FCAW	0.264 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material - MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Date MT: 12/09/2024	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	29°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002306	24	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.297 Mt	A
002307	25	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.264 Mt	A
002308	26	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.181 Mt	A
002309	27	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.260 Mt	A
002310	33	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.178 Mt	A
002311	34	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.264 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material - MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company's Signature: MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002300	1	123A90-FDL-ST-DD90451/ 1	CWWN031	77,000 MM	10,00	2A	FCAW	0.113 Mt	A
002301	2	123A90-FDL-ST-DD90451/ 1	CWWN031	77,000 MM	10,00	2A	FCAW	0.113 Mt	A
002302	3	123A90-FDL-ST-DD90451/ 1	CWWN031	128,000 MM	15,00	2A	FCAW	0.155 Mt	A
002303	21	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.178 Mt	A
002304	22	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.181 Mt	A
002305	23	123A90-FDL-ST-DD90393/ 1	CWWN029	291,000 MM	15,00	2A	FCAW	0.264 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
- The effective angle is related to the deviation of propagation direction of sound path due to TMCP material - MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 ASTM A420 Gr.WPL6	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002299	4	123A90-FDL-ST-DD90686/ 1	CWLEN010	240,000 MM	9,80	2A	FCAW	0.120 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL Snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002298	3	123A90-FDL-ST-DD90686/ 1	CWLEN010	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 ASTM A420 Gr.WPL6	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002297	4	123A90-FDL-ST-DD90686/ 1	CWLEN009	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002294	1	123A90-FDL-ST-DD90686/ 1	CWLEN009	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
002295	3	123A90-FDL-ST-DD90686/ 1	CWLEN009	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
002296	1	123A90-FDL-ST-DD90686/ 1	CWLEN010	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002293	9	123A90-FDL-ST-DD90454/ 1	CWWN083	220,000 MM	12,50	2A	FCAW	0.080 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002292	1	123A90-FDL-ST-DD90203/ 1	CWBR009	323,900 MM	12,70	2A	FCAW	0.380 Mt	A

NOTE / Remarks: Place temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002291	5	123A90-FDL-ST-DD90383/ 1	CWLTB263	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Bardi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002290	2	123A90-FDL-ST-DD90204/ 1	CWBR001	550,000 MM	20,00	2A	FCAW	2.275 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002289	2	123A90-FDL-ST-DD90192/ 1	CWBR001	550,000 MM	20,00	2A	FCAW	1.727 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002284	1	123A90-FDL-ST-DD90204/ 1	CWBR007	323,900 MM	12,70	2A	FCAW	1.238 Mt	A
002285	2	123A90-FDL-ST-DD90204/ 1	CWBR021	406,400 MM	12,70	2A	FCAW	1.518 Mt	A
002286	1	123A90-FDL-ST-DD90204/ 1	CWBR003	323,900 MM	12,70	2A	FCAW	1.017 Mt	A
002287	2	123A90-FDL-ST-DD90204/ 1	CWBR007	323,900 MM	12,70	2A	FCAW	1.048 Mt	A
002288	1	123A90-FDL-ST-DD90204/ 1	CWBR021	406,400 MM	12,70	2A	FCAW	1.617 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002283	2	123A90-FDL-ST-DD90204/ 1	CWBR003	323,900 MM	12,70	2A	FCAW	1.194 Mt	A

NOTE / Remarks: Pisce temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (weld ex)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002279	2	123A90-FDL-ST-DD90460/ 1	CWWN017	273,100 MM	9,30	2A	FCAW	0.857 Mt	A
002280	2	123A90-FDL-ST-DD90461/ 1	CWWN012	273,100 MM	9,30	2A	FCAW	0.857 Mt	A
002281	2	123A90-FDL-ST-DD90457/ 1	CWWN013	273,100 MM	9,30	2A	FCAW	0.857 Mt	A
002282	2	123A90-FDL-ST-DD90457/ 1	CWWN014	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-09-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (weld ex)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002278	2	123A90-FDL-ST-DD90458/ 1	CWWN011	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tortasi Nicola	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-09-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
KK (Weld ex.)	1733	4	3,5x10	0°	0°	/	39.00	+6	/	LONG
Olympus	56928	4	8x9	60°	57°	11	41.00	+6	+2	SHEAR
Olympus	56929	4	8x9	70°	68°	11	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002277	2	123A90-FDL-ST-DD90458/ 1	CWWN010	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL S.r.l.

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 127-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	56927	4	8x9	45°	44.8°	10	38.00	+6	+3	SHEAR
KK (Mat. Base)	1733	4	3,5x10	0°	0°	/	39.00	/	/	LONG
Olympus	56928	4	8x9	60°	60°	11	41.00	+6	+3	SHEAR
Olympus	56929	4	8x9	70°	67°	12	40.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002276	1	123A90-FDL-ST-DD90692/ 1	CWUHV026	1.066,200 MM	20,00	1D	GMAW+SAW	0.225 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002272	1	123A90-FDL-ST-DD90203/ 1	CWBR006	323,900 MM	12,70	2A	FCAW	1.017 Mt	A
002273	2	123A90-FDL-ST-DD90203/ 1	CWBR006	323,900 MM	12,70	2A	FCAW	1.194 Mt	A
002274	1	123A90-FDL-ST-DD90203/ 1	CWBR010	323,900 MM	12,70	2A	FCAW	1.238 Mt	A
002275	2	123A90-FDL-ST-DD90203/ 1	CWBR010	323,900 MM	12,70	2A	FCAW	1.048 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002271	1	123A90-FDL-ST-DD90204/ 1	CWLG019	550,000 MM	30,00	2A	FCAW	2.198 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Baroni Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-08-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002270	2	123A90-FDL-ST-DD90204/ 1	CWBR032	406,400 MM	15,90	2A	FCAW	0.776 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002269	1	123A90-FDL-ST-DD90204/ 1	CWBR029	406,400 MM	20,60	2A	FCAW	1.574 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002268	2	123A90-FDL-ST-DD90203/ 1	CWBR009	323,900 MM	12,70	2A	FCAW	1.048 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-08-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002267	1	123A90-FDL-ST-DD90203/ 1	CWBR009	323,900 MM	12,70	2A	FCAW	1.238 MM	R

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

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ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002267	Pag 2 di 2
		Data/date: 28/08/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90203

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

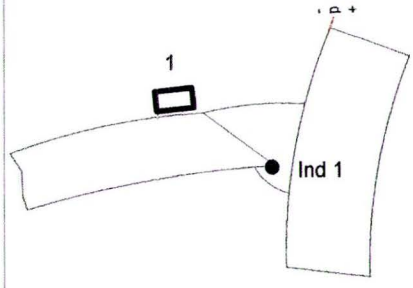
4 ☐

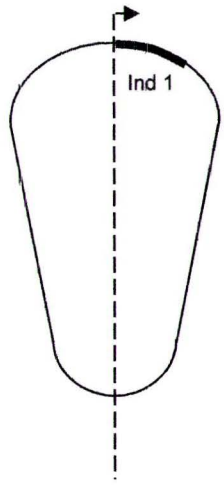
5 ☐

6 ☐

7 ☐

90203/1/CWBR005/ W1





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
N	= PUNTO DI RIFERIMENTO Reference point	EIF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA N Flaw distance from N	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	0 dB	/	180	12	/	15	/	/	0	N	40	1	R	69.4°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
BARCHI LUCA CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002266	2	123A90-FDL-ST-DD90203/ 1	CWBR005	323,900 MM	12,70	2A	FCAW	1.194 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

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APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002265	1	123A90-FDL-ST-DD90203/ 1	CWBR005	323,900 MM	12,70	2A	FCAW	1.017 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
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L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-08-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002264	2	123A90-FDL-ST-DD90203/ 1	CWBR002	550,000 MM	20,00	2A	FCAW	2.271 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (Weld Ex)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002263	1	123A90-FDL-ST-DD90203/ 1	CWBR028	550,000 MM	20,00	2A	FCAW	2.271 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002262	1	123A90-FDL-ST-DD90286/ 1	CWBR015	600,000 MM	20,00	2A	FCAW	2.334 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002261	1	123A90-FDL-ST-DD90284/ 1	CWLG009	323,900 MM	19,05	2A	FCAW	1.017 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Bandini Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-08-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002259	1	123A90-FDL-ST-DD90285/ 1	CWLG005	406,400 MM	12,70	2A	FCAW	1.276 Mt	A
002260	1	123A90-FDL-ST-DD90287/ 1	CWLG003	271,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Barani Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002256	7	123A90-FDL-ST-DD90689/ 1	CWUETE008	340,000 MM	9,50	2A	FCAW	0.300 Mt	A
002257	7	123A90-FDL-ST-DD90689/ 1	CWUETE023	340,000 MM	9,50	2A	FCAW	0.300 Mt	A
002258	8	123A90-FDL-ST-DD90689/ 1	CWUETE023	340,000 MM	9,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	60°	12	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	68°	12	44.00	+6	+2	SHEAR
PAN (Base Mat.)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002250	1	123A90-FDL-ST-DD90204/ 1	CWBR017	406,400 MM	12,70	2A	FCAW	1.477 Mt	A
002251	1	123A90-FDL-ST-DD90284/ 1	CWLG004	271,100 MM	11,10	2A	FCAW	0.857 Mt	A
002252	1	123A90-FDL-ST-DD90289/ 1	CWBR013	355,600 MM	12,70	2A	FCAW	1.486 Mt	A
002253	1	123A90-FDL-ST-DD90289/ 1	CWBR014	355,600 MM	12,70	2A	FCAW	1.486 Mt	A
002254	1	123A90-FDL-ST-DD90289/ 1	CWLG007	406,400 MM	12,70	2A	FCAW	1.276 Mt	A
002255	1	123A90-FDL-ST-DD90204/ 1	CWBR018	406,400 MM	20,60	2A	FCAW	1.477 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MJT examination has been not performed as IDL-QCI-UT-222 position "C" due to limited access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA Company CONTROL ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	60°	12	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	68°	12	44.00	+6	+2	SHEAR
PAN (Base Mat.)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002249	1	123A90-FDL-ST-DD90286/ 1	CWBR025	600,000 MM	20,00	2A	FCAW	2.334 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to limited access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA Company control ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+2	SHEAR
Krautkramer	06631	4	8x9	60°	57°	10	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	67°	16	44.00	+6	+4	SHEAR
PAN (Base Mat.)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002248	4	123A90-FDL-ST-DD90192/ 1	CWBR001	550,000 MM	20,00	2A	FCAW	1.727 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA Company: CONTROL ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002246	1	123A90-FDL-ST-DD90203/ 1	CWBR020	406,400 MM	12,70	2A	FCAW	1.477 Mt	A
002247	1	123A90-FDL-ST-DD90285/ 1	CWLG006	406,400 MM	12,70	2A	FCAW	1.276 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002245	1	123A90-FDL-ST-DD90285/ 1	CWBR012	355,600 MM	12,70	2A	FCAW	1.486 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002243	1	123A90-FDL-ST-DD90284/ 1	CWLG002	271,100 MM	11,10	2A	FCAW	0.857 Mt	A
002244	1	123A90-FDL-ST-DD90285/ 1	CWBR011	355,600 MM	12,70	2A	FCAW	1.486 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.9°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002241	1	123A90-FDL-ST-DD90203/ 1	CWBR019	406,400 MM	12,70	2A	FCAW	1.477 Mt	A
002242	1	123A90-FDL-ST-DD90289/ 1	CWLG008	406,400 MM	12,70	2A	FCAW	1.276 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002239	1	123A90-FDL-ST-DD90288/ 1	CWBR016	600,000 MM	20,00	2A	FCAW	2.334 Mt	A
002240	1	123A90-FDL-ST-DD90288/ 1	CWBR026	600,000 MM	20,00	2A	FCAW	2.334 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002238	1	123A90-FDL-ST-DD90284/ 1	CWLG010	323,900 MM	19,05	2A	FCAW	1.017 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-07-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
SIUI	SMARTOR	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	5905	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	5905	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	6239	2	14x14	60°	59.2°	11	36.00	+6	+2	SHEAR
IMG ULTRASUONI	I884	2	14x14	45°	45°	10	36.00	+6	+2	SHEAR
OLYMPUS	1298079	2	14x14	70°	68°	12	36.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002236	2	123A90-FDL-ST-DD90353/ 1	CWULT003	700,000 MM	35,00	2A	FCAW	2.268 MM	A
002237	4	123A90-FDL-ST-DD90353/ 1	CWULT003	700,000 MM	35,00	2A	FCAW	2.268 MM	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Greco Mattia	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002235	3	123A90-FDL-ST-DD90689/ 1	CWUETE010	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002229	3	123A90-FDL-ST-DD90689/ 1	CWUETE011	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
002230	1	123A90-FDL-ST-DD90689/ 1	CWUETE012	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
002231	3	123A90-FDL-ST-DD90689/ 1	CWUETE012	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
002232	1	123A90-FDL-ST-DD90689/ 1	CWUETE009	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
002233	3	123A90-FDL-ST-DD90689/ 1	CWUETE009	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
002234	1	123A90-FDL-ST-DD90689/ 1	CWUETE010	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 ASTM A420 Gr.WPL6	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002228	1	123A90-FDL-ST-DD90689/ 1	CWUETE038	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002225	1	123A90-FDL-ST-DD90689/ 1	CWUETE013	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002226	3	123A90-FDL-ST-DD90689/ 1	CWUETE013	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002227	4	123A90-FDL-ST-DD90689/ 1	CWUETE013	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002224	1	123A90-FDL-ST-DD90689/ 1	CWUETE011	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 ASTM A420 Gr.WPL6	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical:state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002222	1	123A90-FDL-ST-DD90687/ 1	CWUEIA003	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002223	4	123A90-FDL-ST-DD90687/ 1	CWUEIA003	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Baroni Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002220	4	123A90-FDL-ST-DD90689/ 1	CWUETE023	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002221	6	123A90-FDL-ST-DD90689/ 1	CWUETE023	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: [illegible]	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002214	1	123A90-FDL-ST-DD90689/ 1	CWUETE008	340,000 MM	16,50	2A	FCAW	0.300 MT	A
002215	3	123A90-FDL-ST-DD90689/ 1	CWUETE008	340,000 MM	16,50	2A	FCAW	0.300 MT	A
002216	4	123A90-FDL-ST-DD90689/ 1	CWUETE008	340,000 MM	16,50	2A	FCAW	0.300 MT	A
002217	6	123A90-FDL-ST-DD90689/ 1	CWUETE008	340,000 MM	16,50	2A	FCAW	0.300 MT	A
002218	1	123A90-FDL-ST-DD90689/ 1	CWUETE023	340,000 MM	16,50	2A	FCAW	0.300 MT	A
002219	3	123A90-FDL-ST-DD90689/ 1	CWUETE023	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 ASTM A420 Gr.WPL6	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002212	1	123A90-FDL-ST-DD90687/ 1	CWUEIA002	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002213	4	123A90-FDL-ST-DD90687/ 1	CWUEIA002	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002209	1	123A90-FDL-ST-DD90286/ 1	CWLG011	800,000 MM	20,00	2A	FCAW	2.540 Mt	A
002210	1	123A90-FDL-ST-DD90288/ 1	CWLG012	800,000 MM	20,00	1A	GTAW+FCAW	2.540 Mt	A
002211	1	123A90-FDL-ST-DD90288/ 1	CWLG014	800,000 MM	20,00	1A	GTAW+FCAW	2.532 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-08-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002208	1	123A90-FDL-ST-DD90286/ 1	CWLG013	800,000 MM	20,00	1A	GTAW+FCAW	2.540 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (Weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002206	10	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
002207	11	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.590 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (Weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002204	8	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
002205	9	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.590 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (Weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002202	14	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
002203	15	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.590 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (Weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002196	8	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.962 MT	A
002197	9	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.590 MT	A
002198	10	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.962 MT	A
002199	11	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.590 MT	A
002200	12	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.962 MT	A
002201	13	123A90-FDL-ST-DD90353/ 1	CWULT002	299,500 MM	25,00	2A	FCAW	0.590 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (Weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002192	13	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.590 Mt	A
002193	14	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
002194	15	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.590 Mt	A
002195	7	123A90-FDL-ST-DD90353/ 1	CWULT004	740,000 MM	25,00	2A	FCAW	2.320 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (Weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002191	12	123A90-FDL-ST-DD90353/ 1	CWULT001	299,500 MM	25,00	2A	FCAW	0.962 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYMPUS	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4R	1236535	4	8x9	60°	60.1°	13	38.5	+14	-2	SHEAR
UNIONTEST	1264116	4	8x9	70°	70°	11	45.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002190	2	123A90-FDL-ST-DD90483/ 1	CWTP003	500,000 MM	25,00	2A	FCAW	0.500 MI	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Vancea Ovidiu Iustinian	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4R	1236535	4	8x9	60°	60.1°	13	38.5	+14	-2	SHEAR
UNIONTEST	1264116	4	8x9	70°	70°	11	45.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002189	1	123A90-FDL-ST-DD90483/ 1	CWTP003	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Vanbea Ovidiu Iustinian	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nomal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4R	1236535	4	8x9	60°	60.1°	13	38.5	+14	-2	SHEAR
UNIONTEST	1264116	4	8x9	70°	70.1°	11	45.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002185	26	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002186	27	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	1.260 Mt	A
002187	30	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	0.420 Mt	A
002188	34	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Vancea Ovidiu Iustinian	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4R	1236535	4	8x9	60°	60.1°	13	38.5	+14	-2	SHEAR
UNIONTEST	1264116	4	8x9	70°	70°	11	45.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002179	20	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	1.257 Mt	A
002180	21	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002181	22	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002182	23	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	1.260 Mt	A
002183	24	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	1.257 Mt	A
002184	25	123A90-FDL-ST-DD90483/ 1	CWTP003	714,400 MM	20,00	2A	FCAW	0.687 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Vancea Ovidiu Iustinian	FCW Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 26-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.4°	13	36.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68.9°	13	38.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002177	42	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A
002178	49	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	69.1°	13	36.7	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	60.6°	13	36.4	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002176	72	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.4°	13	36.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68.9°	13	38.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002175	66	123A90-FDL-ST-DD90484/ 1	CWTP003	750,000 MM	20,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYMPUS	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	69.9°	15	39.1	14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	59.8°	15	37.6	14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	45.8°	14	38.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002174	84	123A90-FDL-ST-DD90484/ 1	CWTP003	1.799,000 MM	75,00	1C	FCAW+SAW	1.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	69.9°	15	39.1	14		SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	59.8°	15	37.6	14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	45.8°	14	38.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002173	7	123A90-FDL-ST-DD90484/ 1	CWTP003	1.799,000 MM	75,00	1C	FCAW+SAW	1.210 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	15	37.6	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.9°	15	39.1	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002172	6	123A90-FDL-ST-DD90483/ 1	CWTP003	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3.5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	15	37.6	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.9°	15	39.1	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002171	5	123A90-FDL-ST-DD90483/ 1	CWTP003	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group S.r.l.	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	15	37.6	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.9°	15	39.1	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002168	69	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A
002169	73	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A
002170	81	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	15	37.6	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.9°	15	39.1	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002162	13	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A
002163	14	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A
002164	18	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A
002165	19	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A
002166	31	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	0.420 Mt	A
002167	35	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.4°	14	38.8	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.8°	13	39.00	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002160	38	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
002161	41	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.4°	14	38.8	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.8°	13	39.00	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002154	28	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
002155	29	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
002156	32	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
002157	33	123A90-FDL-ST-DD90483/ 1	CWTP003	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
002158	36	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	0.766 Mt	A
002159	37	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	4.825 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.6°	13	36.7	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.1°	13	36.4	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002148	44	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	4.825 Mt	A
002149	45	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
002150	46	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	0.395 Mt	A
002151	47	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	0.817 Mt	A
002152	48	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A
002153	74	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	69.1°	13	36.4	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	60.6°	13	36.7	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002147	43	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	1D	GMAW+SAW	0.765 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (Weld ex.)	N178	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002145	1	123A90-FDL-ST-DD90475/ 1	CWWS012	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002146	1	123A90-FDL-ST-DD90472/ 1	CWWS013	273,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (Weld ex.)	N178	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002143	1	123A90-FDL-ST-DD90471/ 1	CWWS010	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002144	1	123A90-FDL-ST-DD90471/ 1	CWWS011	273,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (Weld ex.)	N178	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002141	10	123A90-FDL-ST-DD90436/ 1	CWWS077	273,100 MM	9,30	2A	FCAW	0.388 Mt	A
002142	12	123A90-FDL-ST-DD90437/ 1	CWWS078	273,100 MM	9,30	2A	FCAW	0.388 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002138	4	123A90-FDL-ST-DD90437/ 1	CWWS078	340,000 MM	16,50	2A	FCAW	0.064 Mt	A
002139	5	123A90-FDL-ST-DD90437/ 1	CWWS078	340,000 MM	16,50	2A	FCAW	0.064 Mt	A
002140	1	123A90-FDL-ST-DD90437/ 1	CWWS078	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002132	5	123A90-FDL-ST-DD90470/ 1	CWWS080	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002133	3	123A90-FDL-ST-DD90470/ 1	CWWS078	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002134	6	123A90-FDL-ST-DD90470/ 1	CWWS032	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002135	10	123A90-FDL-ST-DD90470/ 1	CWWS032	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002136	3	123A90-FDL-ST-DD90470/ 1	CWWS077	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002137	3	123A90-FDL-ST-DD90437/ 1	CWWS078	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002126	1	123A90-FDL-ST-DD90436/ 1	CWWS077	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002127	3	123A90-FDL-ST-DD90436/ 1	CWWS077	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002128	4	123A90-FDL-ST-DD90436/ 1	CWWS077	340,000 MM	16,50	2A	FCAW	0.064 Mt	A
002129	5	123A90-FDL-ST-DD90436/ 1	CWWS077	340,000 MM	16,50	2A	FCAW	0.064 Mt	A
002130	6	123A90-FDL-ST-DD90470/ 1	CWWS080	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002131	1	123A90-FDL-ST-DD90470/ 1	CWWS080	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002120	6	123A90-FDL-ST-DD90470/ 1	CWWS031	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002121	10	123A90-FDL-ST-DD90470/ 1	CWWS031	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002122	4	123A90-FDL-ST-DD90470/ 1	CWWS066	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002123	6	123A90-FDL-ST-DD90470/ 1	CWWS066	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002124	1	123A90-FDL-ST-DD90470/ 1	CWWS081	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
002125	2	123A90-FDL-ST-DD90436/ 1	CWWS077	340,000 MM	9,50	2A	FCAW	0.243 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002114	2	123A90-FDL-ST-DD90437/ 1	CWWS078	340,000 MM	9,50	2A	FCAW	0.243 Mt	A
002115	6	123A90-FDL-ST-DD90470/ 1	CWWS030	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002116	1	123A90-FDL-ST-DD90470/ 1	CWWS031	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002117	1	123A90-FDL-ST-DD90470/ 1	CWWS059	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002118	6	123A90-FDL-ST-DD90470/ 1	CWWS059	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002119	1	123A90-FDL-ST-DD90470/ 1	CWWS030	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.6°	13	36.7	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.1°	13	36.4	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002111	17	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A
002112	39	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	0.395 Mt	A
002113	40	123A90-FDL-ST-DD90484/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	0.817 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 08-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	71°	14	39.3	14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	58.9°	15	36.4	14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	44.9°	14	37.4	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002110	10	123A90-FDL-ST-DD90483/ 1	CWTP003	800,000 MM	40,00	2A	FCAW	2.592 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	71°	14	39.3	14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	58.9°	15	36.4	14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	44.9°	14	37.4	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002109	9	123A90-FDL-ST-DD90483/ 1	CWTP003	800,000 MM	40,00	2A	FCAW	2.512 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	71°	14	39.3	14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	58.9°	15	36.4	14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	44.9°	14	37.4	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002108	4	123A90-FDL-ST-DD90484/ 1	CWTP003	805,000 MM	65,00	2A	FCAW	1.265 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dep. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	71°	14	39.3	14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	58.9°	15	36.4	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	44.9°	14	37.4	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002107	3	123A90-FDL-ST-DD90484/ 1	CWTP003	1.265,100 MM	65,00	2A	FCAW	1.200 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002106	31	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.4°	14	41.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.8°	15	37.9	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002104	42	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A
002105	49	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	69.6°	13	40.00	14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	59.6°	13	39.3	14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	44.6°	15	37.2		-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002103	6	123A90-FDL-ST-DD90478/ 1	CWTP001	1.799,000 MM	75,00	1C	FCAW+SAW	1.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	71.2°	15	39.6	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	61.2°	14	40.3	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	44°	13	37.4	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002102	5	123A90-FDL-ST-DD90478/ 1	CWTP001	1.799,000 MM	75,00	1C	FCAW+SAW	1.210 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FEGW Group s.r.l.	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	14	34.9		-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	14	34.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002098	51	123A90-FDL-ST-DD90478/ 1	CWTP001	744,000 MM	25,00	2A	FCAW	1.260 Mt	A
002099	52	123A90-FDL-ST-DD90478/ 1	CWTP001	744,000 MM	25,00	2A	FCAW	1.260 Mt	A
002100	53	123A90-FDL-ST-DD90478/ 1	CWTP001	744,000 MM	25,00	2A	FCAW	0.750 Mt	A
002101	54	123A90-FDL-ST-DD90478/ 1	CWTP001	744,000 MM	25,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	70.1	14	40.00	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	60°	13	41.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	49.9°	13	37.00		-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002097	4	123A90-FDL-ST-DD90478/ 1	CWTP001	805,000 MM	65,00	2A	FCAW	1.265 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	70.1°	14	40.00	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	60°	13	41.0	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	49.9°	13	37.00		-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002096	3	123A90-FDL-ST-DD90478/ 1	CWTP001	1.265,100 MM	65,00	2A	FCAW	1.200 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60°	14	36.6	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.0	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002095	73	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.5°	13	37.0	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.3°	14	39.6	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002094	27	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	0.687 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.5°	13	37.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.3°	14	39.6	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002093	26	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	0.687 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Sr	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 07-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.5°	13	37.0	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.3°	14	39.6	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002092	25	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	1.257 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	14	37.1	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.6°	13	39.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002087	21	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	1.257 Mt	A
002088	22	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002089	23	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	1.260 Mt	A
002090	24	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002091	28	123A90-FDL-ST-DD90477/ 1	CWTP001	714,400 MM	20,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group S.r.l.	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	2	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS	1448065	2	3,5x10	0°			25.00			
OLYMPUS AM4	1427774	2	8x9	60°	60°	14	36.6	+14	-2	SHEAR
OLYMPUS AM4R	1450089	2	8x9	70°	70.1°	14	39.0	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002086	18	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	70.2°	14	40.00	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	59.8°	14	38.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	49.5°	13	37.0	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002085	10	123A90-FDL-ST-DD90477/ 1	CWTP001	800,000 MM	40,00	2A	FCAW	2.592 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYMPUS	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002084	2	123A90-FDL-ST-DD90477/ 1	CWTP001	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002083	1	123A90-FDL-ST-DD90477/ 1	CWTP001	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYMPUS	1448065	4	3,5x10	0°			25.00			
OLYMPUS AM4	1427774	4	8x9	60°			36.00			
OLYMPUS AM4R	1450089	4	8x9	70°			53.00			

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002082	34	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 27-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002081	30	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002080	28	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	1.266 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Rep.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 27-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	69.6°	13	39.1	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	59°	13	0.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	45.3°	14	38.9	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002079	6	123A90-FDL-ST-DD90487/ 1	CWTP004	1.799,000 MM	75,00	1C	FCAW+SAW	1.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	71°	17	32.00	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	59°	15	36.00	+14	-1	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	44.3°	14	39.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002078	5	123A90-FDL-ST-DD90487/ 1	CWTP004	1.799,000 MM	75,00	1C	FCAW+SAW	1.210 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	70.1°	14	40.00	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	60°	13	41.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	49.9°	13	37.00		-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002076	3	123A90-FDL-ST-DD90487/ 1	CWTP004	1.265,100 MM	65,00	2A	FCAW	1.200 Mt	A
002077	4	123A90-FDL-ST-DD90487/ 1	CWTP004	805,000 MM	65,00	2A	FCAW	1.265 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	70.1°	13	39.00	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	60°	15	46.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	45.9°	13	37.6	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002075	10	123A90-FDL-ST-DD90486/ 1	CWTP004	800,000 MM	40,00	2A	FCAW	2.592 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	4	14x14	70°	69°	14	40.2	14	-2	SHEAR
OLYMPUS AM2R	1291171	4	14x14	60°	59.1°	13	40.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	4	14x14	45°	44.3°	14	39.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002074	2	123A90-FDL-ST-DD90486/ 1	CWTP004	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCI	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	4	14x14	70°	69°	14	40.2	14	-2	SHEAR
OLYMPUS AM2R	1291171	4	14x14	60°	59.1°	13	40.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	4	14x14	45°	44.3°	14	39.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002073	1	123A90-FDL-ST-DD90486/ 1	CWTP004	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	4	14x14	70°	69.4°	15	40.3	14	-2	SHEAR
OLYMPUS AM2R	1291171	4	14x14	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM2R	1293734	4	14x14	45°	44.3°	14	39.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002072	2	123A90-FDL-ST-DD90480/ 1	CWTP002	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	2	14x14	70°	70.1°	13	39.00	+14	-2	SHEAR
OLYMPUS AM2R	1291171	2	14x14	60°	60°	15	46.00	+14	-2	SHEAR
OLYMPUS AM2R	1293734	2	14x14	45°	45.9°	13	37.6	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002071	9	123A90-FDL-ST-DD90480/ 1	CWTP002	800,000 MM	40,00	2A	FCAW	2.512 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM2R	1266157	4	14x14	70°	69.4°	15	40.3	14	-2	SHEAR
OLYMPUS AM2R	1291171	4	14x14	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM2R	1293734	4	14x14	45°	44.3°	14	39.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002070	1	123A90-FDL-ST-DD90480/ 1	CWTP002	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002065	6	123A90-FDL-ST-DD90468/ 1	CWWS002	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002066	12	123A90-FDL-ST-DD90468/ 1	CWWS002	66,300 MM	10,00	2A	FCAW	0.051 Mt	A
002067	16	123A90-FDL-ST-DD90468/ 1	CWWS002	66,300 MM	10,00	2A	FCAW	0.051 Mt	A
002068	9	123A90-FDL-ST-DD90468/ 1	CWWS082	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
002069	13	123A90-FDL-ST-DD90468/ 1	CWWS082	220,000 MM	12,50	2A	FCAW	0.080 Mt	A

NOTE / Remarks: Place temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002059	8	123A90-FDL-ST-DD90464/ 1	CWWS003	66,300 MM	10,00	2A	FCAW	0.051 Mt	A
002060	1	123A90-FDL-ST-DD90464/ 1	CWWS082	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
002061	5	123A90-FDL-ST-DD90464/ 1	CWWS082	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
002062	1	123A90-FDL-ST-DD90468/ 1	CWWS002	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002063	3	123A90-FDL-ST-DD90468/ 1	CWWS002	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002064	4	123A90-FDL-ST-DD90468/ 1	CWWS002	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: De Cesare Martino CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002058	7	123A90-FDL-ST-DD90464/ 1	CWWS003	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002057	2	123A90-FDL-ST-DD90475/ 1	CWWS009	273,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level II UT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002056	3	123A90-FDL-ST-DD90468/ 1	CWWS068	337,200 MM	10,00	2A	FCAW	0.309 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002050	1	123A90-FDL-ST-DD90468/ 1	CWWS001	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002051	4	123A90-FDL-ST-DD90468/ 1	CWWS001	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002052	1	123A90-FDL-ST-DD90468/ 1	CWWS067	337,200 MM	10,00	2A	FCAW	0.205 Mt	A
002053	2	123A90-FDL-ST-DD90468/ 1	CWWS067	337,200 MM	10,00	2A	FCAW	0.309 Mt	A
002054	3	123A90-FDL-ST-DD90468/ 1	CWWS067	337,200 MM	10,00	2A	FCAW	0.191 Mt	A
002055	1	123A90-FDL-ST-DD90468/ 1	CWWS068	337,200 MM	10,00	2A	FCAW	0.205 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (Weld ex.)	N178	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002044	1	123A90-FDL-ST-DD90472/ 1	CWWS015	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002045	1	123A90-FDL-ST-DD90473/ 1	CWWS008	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002046	2	123A90-FDL-ST-DD90473/ 1	CWWS008	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002047	2	123A90-FDL-ST-DD90472/ 1	CWWS004	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002048	2	123A90-FDL-ST-DD90472/ 1	CWWS005	273,100 MM	11,10	2A	FCAW	0.857 Mt	A
002049	2	123A90-FDL-ST-DD90472/ 1	CWWS015	273,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: De Cesare Martino CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (Weld ex.)	N178	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002043	2	123A90-FDL-ST-DD90471/ 1	CWWS007	273,100 MM	11,10	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.1°	+14	36.8	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002041	27	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002042	28	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	70.1°	+14	36.8	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.0	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002040	26	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	0.687 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl.	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.1°	+14	36.8	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002039	25	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	1.257 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.1°	+14	36.8	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.0	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002038	24	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	0.687 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.1°	+14	36.8	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002034	18	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A
002035	21	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	1.257 Mt	A
002036	22	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002037	23	123A90-FDL-ST-DD90486/ 1	CWTP004	714,400 MM	20,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60°	14	36.6	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002031	25	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002032	26	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002033	27	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/		LONG
OLYMPUS AM4	1427774	4	8x9	60°	60°	14	36.6	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002030	24	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	1.257 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60°	14	36.6	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	14	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002026	20	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	1.257 Mt	A
002027	21	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002028	22	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	0.687 Mt	A
002029	23	123A90-FDL-ST-DD90480/ 1	CWTP002	714,400 MM	20,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Rep.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	14	40.3	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.9°	14	41.00	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002022	14	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A
002023	19	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A
002024	69	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A
002025	74	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Rep.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mazjoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 5

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 127-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002021	30	123A90-FDL-ST-DD90495/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	21.810 Mt	R

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Mandazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

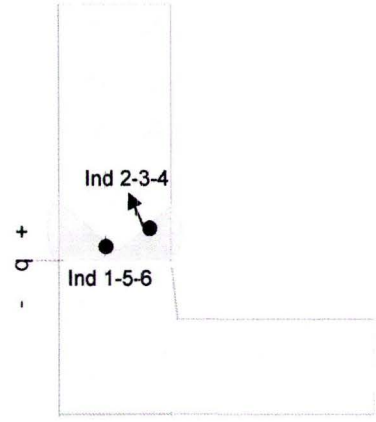
ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002021	Pag 2 di 5
		Data/date: 02/08/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

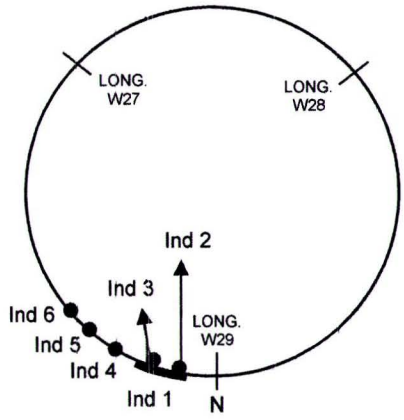
SCHIZZO - Sketch

Scanning Position

1 ☒ 70°
2 ☒ 60°
3 ☒ 45°
4 ☐
5 ☐
6 ☐
7 ☐

90495/1/CWTP009/ W30





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	850	27-31	/	+5	/	/	**240**	**N**	58	2	**R**	58°	VOLUMETRIC
2	+2 dB	/	50	44-47	/	+10	/	/	**290**	**N**	82	2	**R**	58°	PLANAR
3	+2 dB	/	50	44-47	/	+10	/	/	**780**	**N**	82	2	**R**	58°	PLANAR
4	+1 dB	/	80	44-47	/	+10	/	/	**1120**	**N**	82	2	**R**	58°	PLANAR
5	+2 dB	/	80	25-27	/	+5	/	/	**1320**	**N**	68	1	**R**	69°	VOLUMETRIC
6	+1 dB	/	80	23-26	/	+5	/	/	**2150**	**N**	64	1	**R**	69°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc SALVATORE RANDAZZO	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

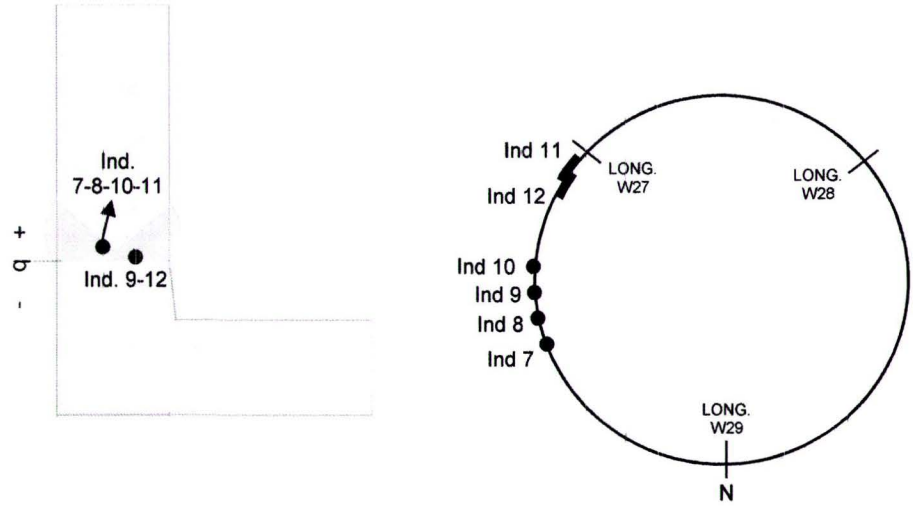
ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002021	Pag 3 di 5
		Data/date: 02/08/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°
2 ☒ 60°
3 ☒ 45°
4 ☐
5 ☐
6 ☐
7 ☐

90495/1/CWTP009/ W30



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
7	-1 dB	/	50	23-26	/	+5	/	/	**2375**	**N**	45	2	**R**	58°	PLANAR
8	-6 dB	/	100	27-30	/	+5	/	/	**5000**	**N**	56	2	**R**	58°	VOLUMETRIC
9	-6 dB	/	200	35-43	/	0	/	/	**5670**	**N**	74	2	**R**	58°	PLANAR+ VOLUMETRIC
10	-6 dB	/	150	29-32	/	+5	/	/	**6230**	**N**	57	2	**R**	58°	VOLUMETRIC
11	-4 dB	/	230	22-25	/	+5	/	/	**6870**	**N**	57	1	**R**	69°	VOLUMETRIC
12	+2 dB	/	300	38-43	/	0	/	/	**6945**	**N**	72	2	**R**	58°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
SALVATORE RANDAZZO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

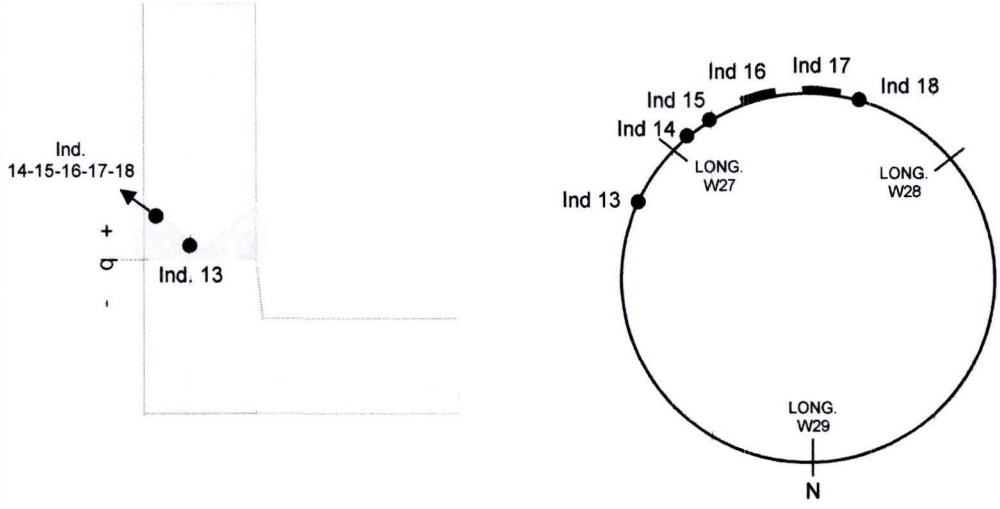
ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002021	Pag 4 di 5
		Data/date: 02/08/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90495**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°
2 ☒ 60°
3 ☒ 45°
4 ☐
5 ☐
6 ☐
7 ☐

90495/1/CWTP009/ W30



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
13	-4 dB	/	150	29-32	/	+5	/	/	**6580**	**N**	56	2	**R**	58°	VOLUMETRIC
14	+4 dB	/	120	13-15	/	+10	/	/	**7630**	**N**	173	3	**R**	45°	PLANAR
15	+4 dB	/	230	13-15	/	+10	/	/	**7820**	**N**	173	3	**R**	45°	PLANAR
16	+4 dB	/	800	13-15	/	+10	/	/	**8400**	**N**	173	3	**R**	45°	PLANAR
17	+4 dB	/	600	13-15	/	+10	/	/	**9720**	**N**	173	3	**R**	45°	PLANAR
18	+4 dB	/	70	13-15	/	+10	/	/	**10730**	**N**	173	3	**R**	45°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
SALVATORE PANDAZZO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

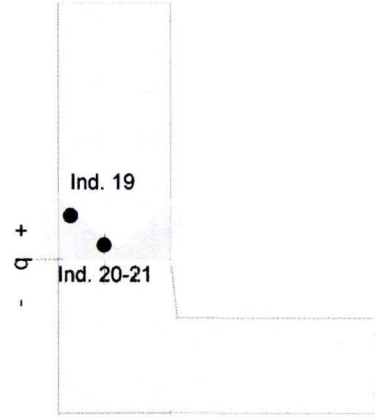
ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002021	Pag 5 di 5
		Data/date: 02/08/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90495

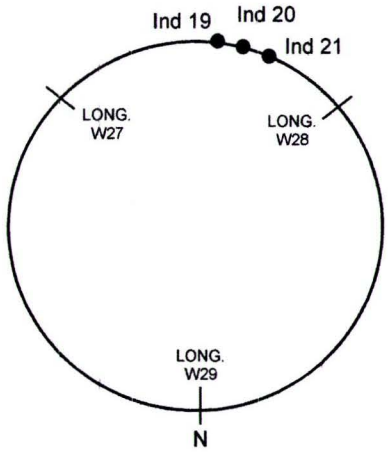
SCHIZZO - Sketch

Scanning Position

1 ☒ 70°
2 ☒ 60°
3 ☒ 45°
4 ☐
5 ☐
6 ☐
7 ☐

90495/1/CWTP009/ W30





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
19	+4 dB	/	140	13-15	/	+10	/	/	**11160**	**N**	173	3	**R**	45°	PLANAR
20	-2 dB	/	150	25-28	/	+5	/	/	**12040**	**N**	71	1	**R**	69°	VOLUMETRIC
21	-2 dB	/	80	20-23	/	+5	/	/	**12310**	**N**	56	1	**R**	69°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
SALVATORE RANDAZZO CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002020	1	123A90-FDL-ST-DD90675/ 1	CWUHV009	250,000 MM	15,00	2A	FCAW	0.250 MI	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002019	5	123A90-FDL-ST-DD90674/ 1	CWUHV015	196,000 MM	15,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002018	1	123A90-FDL-ST-DD90674/ 1	CWUHV015	196,000 MM	15,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002017	6	123A90-FDL-ST-DD90674/ 1	CWUHV020	250,000 MM	15,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002016	5	123A90-FDL-ST-DD90675/ 1	CWUHV009	250,000 MM	15,00	2A	FCAW	0.250 MI	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002014	1	123A90-FDL-ST-DD90674/ 1	CWUHV016	196,000 MM	15,00	2A	FCAW	0.250 Mt	A
002015	1	123A90-FDL-ST-DD90675/ 1	CWUHV010	250,000 MM	15,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL Snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002012	1	123A90-FDL-ST-DD90675/ 1	CWUHV006	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002013	1	123A90-FDL-ST-DD90674/ 1	CWUHV005	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 9

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (Weld Ex)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002010	8	123A90-FDL-ST-DD90555/ 1	CWTPW034	219,100 MM	10,30	2A	FCAW	0.304 Mt	A
002011	10	123A90-FDL-ST-DD90555/ 1	CWTPW034	219,100 MM	10,30	2A	FCAW	0.304 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Barcellona	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002009	2	123A90-FDL-ST-DD90561/ 1	CWTPW072	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Direttore Tecnico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002007	1	123A90-FDL-ST-DD90561/ 1	CWTPW075	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
002008	2	123A90-FDL-ST-DD90561/ 1	CWTPW075	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Barchi Luca CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002001	1	123A90-FDL-ST-DD90560/ 1	CWTPW071	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
002002	2	123A90-FDL-ST-DD90560/ 1	CWTPW071	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002003	1	123A90-FDL-ST-DD90555/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
002004	2	123A90-FDL-ST-DD90555/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
002005	3	123A90-FDL-ST-DD90555/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002006	4	123A90-FDL-ST-DD90555/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0234 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (Weld Ex)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001999	1	123A90-FDL-ST-DD90595/ 1	CWTPW032	219,100 MM	10,30	2A	FCAW	0.812 MT	A
002000	1	123A90-FDL-ST-DD90595/ 1	CWTPW033	219,100 MM	10,30	2A	FCAW	0.812 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	14	40.3	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.9°	14	41.00	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001998	82	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (Weld Ex)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001994	1	123A90-FDL-ST-DD90594/ 1	CWTPW020	273,100 MM	12,70	2A	FCAW	0.857 MT	A
001995	2	123A90-FDL-ST-DD90594/ 1	CWTPW020	273,100 MM	12,70	2A	FCAW	0.857 MT	A
001996	1	123A90-FDL-ST-DD90594/ 1	CWTPW021	273,100 MM	12,70	2A	FCAW	0.857 MT	A
001997	2	123A90-FDL-ST-DD90594/ 1	CWTPW021	273,100 MM	12,70	2A	FCAW	0.857 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	14	40.3	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.9°	14	41.00	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001993	75	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (Weld Ex)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001989	8	123A90-FDL-ST-DD90557/ 1	CWTPW038	219,100 MM	10,30	2A	FCAW	0.304 Mt	A
001990	10	123A90-FDL-ST-DD90557/ 1	CWTPW038	219,100 MM	10,30	2A	FCAW	0.304 Mt	A
001991	2	123A90-FDL-ST-DD90595/ 1	CWTPW032	219,100 MM	10,30	2A	FCAW	0.959 Mt	A
001992	2	123A90-FDL-ST-DD90595/ 1	CWTPW033	219,100 MM	10,30	2A	FCAW	0.959 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Barchiesi CONTROL SRLC	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001988	82	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001987	4	123A90-FDL-ST-DD90557/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Gianfranco Sulis CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001986	75	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001983	1	123A90-FDL-ST-DD90557/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
001984	2	123A90-FDL-ST-DD90557/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
001985	3	123A90-FDL-ST-DD90557/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5°	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001982	3	123A90-FDL-ST-DD90556/ 1	CWTPW037	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001980	35	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	0.420 Mt	A
001981	74	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69.4°	12	39.20	+6	+4.5	SHEAR
GE	73687	4	8x9	60°	60.6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44.8°	10	37.30	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001978	1	123A90-FDL-ST-DD90556/ 1	CWTPW037	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
001979	2	123A90-FDL-ST-DD90556/ 1	CWTPW037	340,000 MM	16,50	2A	FCAW	0.303 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001977	70	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group SA	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3	15	39.2	+14		SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001976	36	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001970	14	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A
001971	15	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A
001972	19	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A
001973	20	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A
001974	31	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	0.420 Mt	A
001975	32	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001968	31	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	0.420 Mt	A
001969	35	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001966	35	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	0.420 Mt	A
001967	36	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	69.4°	15	39.2	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	59.3°	15	40.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001965	32	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001962	70	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A
001963	74	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A
001964	20	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	0.234 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	59.3°	15	40.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001961	19	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 29-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.3°	15	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.4°	15	40.3	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001959	14	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	0.137 Mt	A
001960	15	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.9	13	38.9	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001958	40	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	2A	FCAW	0.210 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.9°	13	38.9	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001954	13	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A
001955	18	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A
001956	73	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	0.216 Mt	A
001957	81	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	0.165 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 25-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.1°	15	37.9	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.3°	15	38.4	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001952	47	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	0.395 Mt	A
001953	48	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	0.817 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.1°	15	37.9	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.3°	15	69.3	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001951	41	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	0.817 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

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TEST REPORT - NDT ACTIVITIES
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ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 25-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.1°	15	37.9	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.3°	15	38.4	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001950	40	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	0.395 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001948	29	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
001949	30	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	1.266 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYMPUS	1448065	4	3,5x10	0°			25.00			
OLYMPUS AM4	1427774	4	8x9	60°			36.00			
OLYMPUS AM4R	1450089	4	8x9	70°			53.00			

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001947	33	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	1.266 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl.	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001944	29	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
001945	32	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
001946	33	123A90-FDL-ST-DD90480/ 1	CWTP002	414,000 MM	20,00	2A	FCAW	1.266 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001942	33	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
001943	34	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	1.266 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 22-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.4°	14	41.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.8°	15	37.9	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001941	50	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.1°	14	40.6	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	71.2°	14	39.8	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001940	43	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	61.1°	14	40.6	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	71.2°	14	39.8	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001936	50	123A90-FDL-ST-DD90484/ 1	CWTP003	744,000 MM	25,00	2A	FCAW	1.260 Mt	A
001937	51	123A90-FDL-ST-DD90484/ 1	CWTP003	744,000 MM	25,00	2A	FCAW	1.260 Mt	A
001938	52	123A90-FDL-ST-DD90484/ 1	CWTP003	744,000 MM	25,00	2A	FCAW	0.750 Mt	A
001939	53	123A90-FDL-ST-DD90484/ 1	CWTP003	744,000 MM	25,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.5	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001935	50	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.1°	13	40.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69°	14	40.2	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001932	7	123A90-FDL-ST-DD90486/ 1	CWTP004	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
001933	8	123A90-FDL-ST-DD90486/ 1	CWTP004	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
001934	73	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.1°	13	40.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69°	14	40.2	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001928	5	123A90-FDL-ST-DD90480/ 1	CWTP002	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
001929	6	123A90-FDL-ST-DD90480/ 1	CWTP002	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
001930	17	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A
001931	72	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	1.218 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouioud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.1°	13	40.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69°	14	40.2	14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001926	7	123A90-FDL-ST-DD90477/ 1	CWTP001	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
001927	8	123A90-FDL-ST-DD90477/ 1	CWTP001	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	36.00	+14	-1	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	71°	17	32.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001921	41	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
001922	42	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A
001923	47	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	0.395 Mt	A
001924	48	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
001925	49	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001919	33	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
001920	34	123A90-FDL-ST-DD90486/ 1	CWTP004	414,000 MM	20,00	2A	FCAW	1.266 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001918	46	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	1.617 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001912	37	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	0.766 Mt	A
001913	38	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	4.059 Mt	A
001914	39	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	1.617 Mt	A
001915	43	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A
001916	44	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	0.765 Mt	A
001917	45	123A90-FDL-ST-DD90478/ 1	CWTP001	2.379,000 MM	30,00	1D	GMAW+SAW	4.059 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
TRU-SONIC	66670	4	14x14	60°	60°	14	46.0	+14	-2	SHEAR
TRU-SONIC	9501	4	14x14	70°	70.1°	13	40.4	+14	-2	SHEAR
TRU-SONIC ABE	9349	2	14x14	45°	45.1	13	35.6	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001910	7	123A90-FDL-ST-DD90481/ 1	CWTP002	1.799,000 MM	75,00	1C	FCAW+SAW	1.210 Mt	A
001911	84	123A90-FDL-ST-DD90481/ 1	CWTP002	1.799,000 MM	75,00	1C	FCAW+SAW	1.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 00

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001909	5	123A90-FDL-ST-DD90674/ 1	CWUHV005	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Rendazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 24-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	30.9	14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	15	33.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001907	29	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	1.266 Mt	A
001908	30	123A90-FDL-ST-DD90477/ 1	CWTP001	414,000 MM	20,00	2A	FCAW	1.266 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	14	34.9		-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	14	34.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001906	46	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	1.617 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°			25.00			
OLYMPUS AM4	1427774	4	8x9	60°	59°	14	34.9		-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	14	34.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001905	45	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	4.059 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°			25.00			
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	14	34.9		-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	14	34.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001904	44	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	0.765 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	14	34.9		-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	14	34.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001902	38	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	4.059 Mt	A
001903	39	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	1.617 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	14	34.9		-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	14	34.8	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001901	37	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	0.765 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°			25.00			
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	-14	34.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.5°	14	35.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001900	54	123A90-FDL-ST-DD90487/ 1	CWTP004	744,000 MM	25,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	-14	34.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.5°	14	35.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001897	51	123A90-FDL-ST-DD90487/ 1	CWTP004	744,000 MM	25,00	2A	FCAW	1.260 Mt	A
001898	52	123A90-FDL-ST-DD90487/ 1	CWTP004	744,000 MM	25,00	2A	FCAW	1.260 Mt	A
001899	53	123A90-FDL-ST-DD90487/ 1	CWTP004	744,000 MM	25,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	-14	34.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.5°	14	35.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001896	53	123A90-FDL-ST-DD90481/ 1	CWTP002	744,000 MM	25,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group SRL	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	-14	34.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.5°	14	35.00	+14	-2	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001895	52	123A90-FDL-ST-DD90481/ 1	CWTP002	744,000 MM	25,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°			25.00			
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	-14	34.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.5°	14	35.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001894	51	123A90-FDL-ST-DD90481/ 1	CWTP002	744,000 MM	25,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	-14	34.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.5°	14	35.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001893	50	123A90-FDL-ST-DD90481/ 1	CWTP002	744,000 MM	25,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001888	10	123A90-FDL-ST-DD90587/ 1	CWTPW012	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001889	1	123A90-FDL-ST-DD90587/ 1	CWTPW051	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
001890	5	123A90-FDL-ST-DD90587/ 1	CWTPW051	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
001891	1	123A90-FDL-ST-DD90587/ 1	CWTPW052	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
001892	5	123A90-FDL-ST-DD90587/ 1	CWTPW052	220,000 MM	12,50	2A	FCAW	0.080 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001882	5	123A90-FDL-ST-DD90591/ 1	CWTPW013	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001883	6	123A90-FDL-ST-DD90591/ 1	CWTPW013	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001884	10	123A90-FDL-ST-DD90591/ 1	CWTPW013	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001885	1	123A90-FDL-ST-DD90591/ 1	CWTPW075	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001886	3	123A90-FDL-ST-DD90591/ 1	CWTPW075	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001887	4	123A90-FDL-ST-DD90591/ 1	CWTPW075	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001877	6	123A90-FDL-ST-DD90590/ 1	CWTPW003	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001878	10	123A90-FDL-ST-DD90590/ 1	CWTPW003	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001879	1	123A90-FDL-ST-DD90590/ 1	CWTPW004	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
001880	1	123A90-FDL-ST-DD90590/ 1	CWTPW073	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
001881	5	123A90-FDL-ST-DD90590/ 1	CWTPW073	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001871	4	123A90-FDL-ST-DD90588/ 1	CWTPW085	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001872	8	123A90-FDL-ST-DD90588/ 1	CWTPW085	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001873	1	123A90-FDL-ST-DD90588/ 1	CWTPW086	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001874	5	123A90-FDL-ST-DD90588/ 1	CWTPW086	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001875	6	123A90-FDL-ST-DD90588/ 1	CWTPW086	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001876	5	123A90-FDL-ST-DD90590/ 1	CWTPW003	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001865	5	123A90-FDL-ST-DD90464/ 1	CWWS024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001866	6	123A90-FDL-ST-DD90464/ 1	CWWS079	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001867	10	123A90-FDL-ST-DD90464/ 1	CWWS079	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001868	2	123A90-FDL-ST-DD90465/ 1	CWWS026	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
001869	6	123A90-FDL-ST-DD90465/ 1	CWWS027	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001870	6	123A90-FDL-ST-DD90465/ 1	CWWS026	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001864	1	123A90-FDL-ST-DD90464/ 1	CWWS024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001863	5	123A90-FDL-ST-DD90464/ 1	CWWS079	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: De Cesare Marino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001861	6	123A90-FDL-ST-DD90465/ 1	CWWS019	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001862	10	123A90-FDL-ST-DD90465/ 1	CWWS019	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001855	6	123A90-FDL-ST-DD90464/ 1	CWWS025	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001856	10	123A90-FDL-ST-DD90464/ 1	CWWS025	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001857	1	123A90-FDL-ST-DD90464/ 1	CWWS079	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001858	5	123A90-FDL-ST-DD90464/ 1	CWWS079	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001859	1	123A90-FDL-ST-DD90465/ 1	CWWS019	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001860	5	123A90-FDL-ST-DD90465/ 1	CWWS019	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001853	1	123A90-FDL-ST-DD90467/ 1	CWWS075	330,000 MM	11,50	2A	FCAW	0.160 MI	A
001854	5	123A90-FDL-ST-DD90467/ 1	CWWS075	330,000 MM	11,50	2A	FCAW	0.160 MI	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator Via Cesare Battisti	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001847	1	123A90-FDL-ST-DD90467/ 1	CWWS054	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001848	5	123A90-FDL-ST-DD90467/ 1	CWWS054	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001849	1	123A90-FDL-ST-DD90467/ 1	CWWS055	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001850	5	123A90-FDL-ST-DD90467/ 1	CWWS055	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001851	5	123A90-FDL-ST-DD90467/ 1	CWWS046	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001852	6	123A90-FDL-ST-DD90467/ 1	CWWS046	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-07-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67,7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001841	1	123A90-FDL-ST-DD90467/ 1	CWWS053	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001842	5	123A90-FDL-ST-DD90467/ 1	CWWS053	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001843	1	123A90-FDL-ST-DD90467/ 1	CWWS052	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001844	6	123A90-FDL-ST-DD90468/ 1	CWWS022	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001845	1	123A90-FDL-ST-DD90467/ 1	CWWS020	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001846	1	123A90-FDL-ST-DD90467/ 1	CWWS021	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	3	
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001840	1	123A90-FDL-ST-DD90465/ 1	CWWS018	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001839	10	123A90-FDL-ST-DD90465/ 1	CWWS018	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator: Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001838	1	123A90-FDL-ST-DD90461/ 1	CWWN012	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CENTESTITA Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

PASQUALE VESTITA
ASNT - EN473 - ISO9712
Lev.II VT-MT-UT-PT

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001837	2	123A90-FDL-ST-DD90460/ 1	CWWN061	219,100 MM	8,20	2A	FCAW	0.835 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MJT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001835	1	123A90-FDL-ST-DD90458/ 1	CWWN010	273,100 MM	9,30	2A	FCAW	0.857 Mt	A
001836	1	123A90-FDL-ST-DD90458/ 1	CWWN011	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Place temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator: Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001834	1	123A90-FDL-ST-DD90460/ 1	CWWN017	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

PASQUALE VESTITA
ASNT - EN473 - ISO9712
Lev.II VT-MT-UT-PT

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001832	1	123A90-FDL-ST-DD90457/ 1	CWWN013	273,100 MM	9,30	2A	FCAW	0.857 Mt	A
001833	1	123A90-FDL-ST-DD90457/ 1	CWWN014	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator - Ventilo Responsabile Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001830	3	123A90-FDL-ST-DD90456/ 1	CWWN022	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001831	10	123A90-FDL-ST-DD90456/ 1	CWWN028	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONVEST Operator: Vestita Pasquale PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	57°	12	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	68°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001824	2	123A90-FDL-ST-DD90651/ 1	CWPAUP043	219,100 MM	12,70	2A	FCAW	0.855 Mt	A
001825	1	123A90-FDL-ST-DD90650/ 1	CWPAUP013	355,600 MM	15,90	2A	FCAW	0.589 Mt	A
001826	1	123A90-FDL-ST-DD90651/ 1	CWPAUP023	219,100 MM	12,70	2A	FCAW	0.849 Mt	A
001827	2	123A90-FDL-ST-DD90651/ 1	CWPAUP029	219,100 MM	12,70	2A	FCAW	0.881 Mt	A
001828	1	123A90-FDL-ST-DD90651/ 1	CWPAUP025	219,100 MM	12,70	2A	FCAW	0.824 Mt	A
001829	1	123A90-FDL-ST-DD90651/ 1	CWPAUP027	219,100 MM	12,70	2A	FCAW	0.881 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Stamp: CONTROL snc Internazionale Srl	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.9°	-14	33.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69°	14	36.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001823	67	123A90-FDL-ST-DD90487/ 1	CWTP004	750,000 MM	20,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.9°	-14	33.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69°	14	36.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001822	66	123A90-FDL-ST-DD90481/ 1	CWTP002	750,000 MM	20,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.9°	-14	33.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69°	14	36.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001821	67	123A90-FDL-ST-DD90478/ 1	CWTP001	750,000 MM	20,00	2A	FCAW	0.750 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	38.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.2°	14	40.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001820	11	123A90-FDL-ST-DD90486/ 1	CWTP004	800,000 MM	40,00	1D	GMAW+SAW	2.512 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	38.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.2°	14	40.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001819	10	123A90-FDL-ST-DD90480/ 1	CWTP002	800,000 MM	40,00	1D	GMAW+SAW	2.592 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.8°	14	38.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.2°	14	40.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001818	11	123A90-FDL-ST-DD90477/ 1	CWTP001	800,000 MM	40,00	1D	GMAW+SAW	2.512 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.2°	14	39.2	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.1°	13	39.2	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001816	3	123A90-FDL-ST-DD90481/ 1	CWTP002	1.265,100 MM	65,00	2A	FCAW	1.200 Mt	A
001817	4	123A90-FDL-ST-DD90481/ 1	CWTP002	805,100 MM	65,00	2A	FCAW	1.265 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001815	84	123A90-FDL-ST-DD90486/ 1	CWTP004	800,000 MM	40,00	1D	GMAW+SAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group s.r.l.	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001814	83	123A90-FDL-ST-DD90486/ 1	CWTP004	800,000 MM	40,00	1D	GMAW+SAW	0.950 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 31-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001813	83	123A90-FDL-ST-DD90483/ 1	CWTP003	800,000 MM	40,00	1D	GMAW+SAW	0.950 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001812	82	123A90-FDL-ST-DD90483/ 1	CWTP003	800,000 MM	40,00	1D	GMAW+SAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino Srl		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001811	83	123A90-FDL-ST-DD90480/ 1	CWTP002	800,000 MM	40,00	1D	GMAW+SAW	0.950 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001810	82	123A90-FDL-ST-DD90480/ 1	CWTP002	800,000 MM	40,00	1D	GMAW+SAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001809	83	123A90-FDL-ST-DD90477/ 1	CWTP001	800,000 MM	40,00	1D	GMAW+SAW	0.950 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	60.4°	15	46.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70.7°	13	39.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001808	84	123A90-FDL-ST-DD90477/ 1	CWTP001	800,000 MM	40,00	1D	GMAW+SAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Meticellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYMPUS	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	36.00	+14	-1	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	71°	17	32.00	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001807	40	123A90-FDL-ST-DD90487/ 1	CWTP004	2.379,000 MM	30,00	1D	GMAW+SAW	0.395 Mt	R

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	TRAM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001805	1	123A90-FDL-ST-DD90651/ 1	CWPAUP022	219,100 MM	12,70	2A	FCAW	0.849 Mt	A
001806	2	123A90-FDL-ST-DD90651/ 1	CWPAUP022	219,100 MM	12,70	2A	FCAW	0.849 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
L'esame MUT non è stato eseguito come IDL-QCI-UT-222 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company SONATRACH MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Date 07-08-2024	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001804	1	123A90-FDL-ST-DD90204/ 1	CWBR031	406,400 MM	15,90	2A	FCAW	0.776 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
L'esame MUT non è stato eseguito come IDL-QCI-UT-235 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69,4°	12	39.20	+6	+4,5	SHEAR
GE	73687	4	8x9	60°	60,6°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001803	2	123A90-FDL-ST-DD90204/ 1	CWLG019	550,000 MM	30,00	2A	FCAW	1.701 MI	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0235 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69,4°	12	39.20	+6	+4,5	SHEAR
GE	73687	4	8x9	60°	60,6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44,8°	10	37.30	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001801	2	123A90-FDL-ST-DD90204/ 1	CWBR018	406,400 MM	20,60	2A	FCAW	1.477 Mt	A
001802	2	123A90-FDL-ST-DD90204/ 1	CWBR031	406,400 MM	15,90	2A	FCAW	1.579 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
MUT examination has been not performed as IDL-QCI-UT-235 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0235 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	38.90	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-weld ex	18534	4	3,5x10	0°	0°	/	45.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001800	2	123A90-FDL-ST-DD90204/ 1	CWBR029	406,400 MM	20,60	2A	FCAW	1.564 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001799	1	123A90-FDL-ST-DD90651/ 1	CWPAUP031	273,100 MM	15,90	2A	FCAW	0.410 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.
Weld length plus 50mm on each side of weld.

TECNICO CND LIVELLO 2 NDT Technician	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 - SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001794	2	123A90-FDL-ST-DD90650/ 1	CWPAUP014	355,600 MM	15,90	2A	FCAW	0.589 Mt	A
001795	1	123A90-FDL-ST-DD90651/ 1	CWPAUP024	219,100 MM	12,70	2A	FCAW	0.824 Mt	A
001796	2	123A90-FDL-ST-DD90651/ 1	CWPAUP024	219,100 MM	12,70	2A	FCAW	0.849 Mt	A
001797	1	123A90-FDL-ST-DD90651/ 1	CWPAUP026	219,100 MM	12,70	2A	FCAW	0.881 Mt	A
001798	2	123A90-FDL-ST-DD90651/ 1	CWPAUP026	219,100 MM	12,70	2A	FCAW	0.907 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL ROSETTI MARINO MIRKO ROSETTI Level 2 ISO 9712 SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	13	32.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001792	42	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A
001793	49	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	2A	FCAW	1.260 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	13	32.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001786	36	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.800 Mt	A
001787	37	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	4.825 Mt	A
001788	38	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
001789	39	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.395 Mt	A
001790	40	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
001791	41	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	13	32.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001780	43	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.800 Mt	A
001781	44	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	4.825 Mt	A
001782	45	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
001783	46	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.395 Mt	A
001784	47	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	0.817 Mt	A
001785	48	123A90-FDL-ST-DD90481/ 1	CWTP002	2.379,000 MM	30,00	1D	GMAW+SAW	6.541 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Mouloud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001776	68	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A
001777	69	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A
001778	71	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A
001779	72	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001775	17	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001772	12	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A
001773	13	123A90-FDL-ST-DD90486/ 1	CWTP004	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A
001774	16	123A90-FDL-ST-DD90486/ 1	CWTP004	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001770	70	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A
001771	71	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001764	11	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A
001765	12	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A
001766	15	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A
001767	16	123A90-FDL-ST-DD90483/ 1	CWTP003	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A
001768	67	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A
001769	68	123A90-FDL-ST-DD90483/ 1	CWTP003	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001758	15	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A
001759	16	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A
001760	67	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A
001761	68	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A
001762	70	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A
001763	71	123A90-FDL-ST-DD90480/ 1	CWTP002	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Rep.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group S.r.l.	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (Weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001757	1	123A90-FDL-ST-DD90593/ 1	CWTPW097	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001756	12	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (Weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001754	1	123A90-FDL-ST-DD90593/ 1	CWTPW044	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001755	3	123A90-FDL-ST-DD90593/ 1	CWTPW044	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tomasi Nicol CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001753	11	123A90-FDL-ST-DD90480/ 1	CWTP002	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (Weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001751	2	123A90-FDL-ST-DD90594/ 1	CWTPW017	219,100 MM	10,30	2A	FCAW	0.687 Mt	A
001752	2	123A90-FDL-ST-DD90594/ 1	CWTPW018	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001750	72	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (Weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001749	2	123A90-FDL-ST-DD90594/ 1	CWTPW014	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comanditti Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001745	17	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	1.070 Mt	A
001746	68	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A
001747	69	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A
001748	71	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001744	10	123A90-FDL-ST-DD90593/ 1	CWTPW097	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tomasi Nico CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001743	16	123A90-FDL-ST-DD90477/ 1	CWTP001	1.294,000 MM	20,00	2A	FCAW	1.000 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001742	6	123A90-FDL-ST-DD90593/ 1	CWTPW097	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICO TOMASI CONSORZIO RMB UT-UT Lev.3 VT-PT-MT-TOFD/PA Lev.2 UNI EN ISO 9712	PISTOCCHI ANDREA LEVEL III - ISO 9712 UT - RT - MT - PT - VT			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001741	5	123A90-FDL-ST-DD90593/ 1	CWTPW097	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company / CONTRACTOR: CONSORZIO RMB Operator / Tomasi Nico NICO TOMASI LT-UT Lev. 3 VT-PT-MT-TOFD/PA Lev.2 UNI EN ISO 9712	PISTOCCHI ANDREA LEVEL III / ISO 9712 UT - RT - MT - PT - VT			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001740	10	123A90-FDL-ST-DD90593/ 1	CWTPW084	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tomasi Nico CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

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Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001739	13	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	1.061 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001733	5	123A90-FDL-ST-DD90593/ 1	CWTPW083	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001734	6	123A90-FDL-ST-DD90593/ 1	CWTPW083	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001735	10	123A90-FDL-ST-DD90593/ 1	CWTPW083	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001736	1	123A90-FDL-ST-DD90593/ 1	CWTPW084	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001737	5	123A90-FDL-ST-DD90593/ 1	CWTPW084	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001738	6	123A90-FDL-ST-DD90593/ 1	CWTPW084	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001732	1	123A90-FDL-ST-DD90593/ 1	CWTPW083	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL SRC Operator: Thomas Nicolo'	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 9

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001731	10	123A90-FDL-ST-DD90593/ 1	CWTPW011	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-07-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.9°	12	34.50	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	12	32.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001730	12	123A90-FDL-ST-DD90477/ 1	CWTP001	1.200,000 MM	20,00	2A	FCAW	1.000 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001728	5	123A90-FDL-ST-DD90593/ 1	CWTPW011	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001729	6	123A90-FDL-ST-DD90593/ 1	CWTPW011	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tomasi Nico CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 9

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001722	10	123A90-FDL-ST-DD90593/ 1	CWTPW006	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001723	1	123A90-FDL-ST-DD90593/ 1	CWTPW010	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001724	5	123A90-FDL-ST-DD90593/ 1	CWTPW010	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001725	6	123A90-FDL-ST-DD90593/ 1	CWTPW010	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001726	10	123A90-FDL-ST-DD90593/ 1	CWTPW010	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001727	1	123A90-FDL-ST-DD90593/ 1	CWTPW011	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001716	5	123A90-FDL-ST-DD90593/ 1	CWTPW005	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001717	6	123A90-FDL-ST-DD90593/ 1	CWTPW005	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001718	10	123A90-FDL-ST-DD90593/ 1	CWTPW005	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001719	1	123A90-FDL-ST-DD90593/ 1	CWTPW006	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001720	5	123A90-FDL-ST-DD90593/ 1	CWTPW006	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001721	6	123A90-FDL-ST-DD90593/ 1	CWTPW006	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL S.r.l.c. Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (Mat. Base)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001715	1	123A90-FDL-ST-DD90593/ 1	CWTPW005	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tomasi Nico CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001714	3	123A90-FDL-ST-DD90595/ 1	CWTPW023	297,000 MM	15,00	2A	FCAW	0.460 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001713	2	123A90-FDL-ST-DD90595/ 1	CWTPW023	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tomasi Iacopo CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001712	1	123A90-FDL-ST-DD90595/ 1	CWTPW023	219,100 MM	10,30	2A	FCAW	0.642 Mt	A

NOTE / Remarks: Place temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: [illegible]	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001709	1	123A90-FDL-ST-DD90594/ 1	CWTPW014	219,100 MM	10,30	2A	FCAW	0.687 Mt	A
001710	1	123A90-FDL-ST-DD90594/ 1	CWTPW017	219,100 MM	10,30	2A	FCAW	0.687 Mt	A
001711	1	123A90-FDL-ST-DD90594/ 1	CWTPW018	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Matteo Nieto	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL s.r.l.

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001705	1	123A90-FDL-ST-DD90591/ 1	CWTPW039	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001706	5	123A90-FDL-ST-DD90591/ 1	CWTPW039	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001707	6	123A90-FDL-ST-DD90591/ 1	CWTPW039	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001708	10	123A90-FDL-ST-DD90591/ 1	CWTPW039	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 9

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69,4°	12	39.20	+6	+4,5	SHEAR
GE	73687	4	8x9	60°	60,6°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001704	1	123A90-FDL-ST-DD90650/ 1	CWPAUP014	355,600 MM	15,90	2A	FCAW	0.589 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69,4°	12	39.20	+6	+4,5	SHEAR
GE	73687	4	8x9	60°	60,6°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001703	1	123A90-FDL-ST-DD90651/ 1	CWPAUP031	273,100 MM	15,90	2A	FCAW	0.889 Mt	R

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 001703	Pag 2 di 2
		Data/date: 15/07/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90651**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

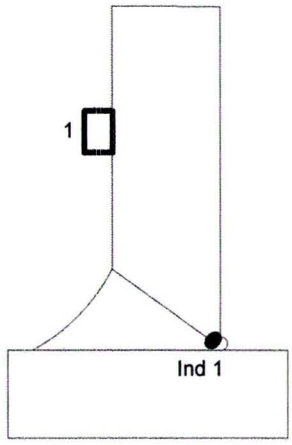
4 ☐

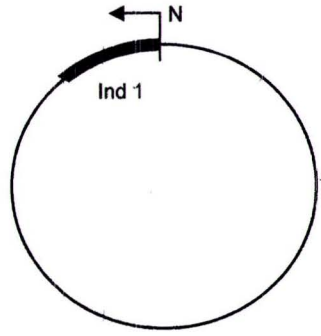
5 ☐

6 ☐

7 ☐

90651/1/CWPAUP031/ W1





LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	110	15	/	0÷5	/	/	**0**	**N**	42	1	**R**	69.4°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actuel (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69,4°	12	39.20	+6	+4,5	SHEAR
GE	73687	4	8x9	60°	60,6°	11	36.50	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001702	2	123A90-FDL-ST-DD90651/ 1	CWPAUP042	219,100 MM	12,70	2A	FCAW	0.855 Mt	A

NOTE / Remarks: Piece temperature: from 25°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	69,4°	12	39.20	+6	+4,5	SHEAR
GE	73687	4	8x9	60°	60,6°	11	36.50	+6	+3	SHEAR
GE	75800	4	8x9	45°	44,8°	10	37.30	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001700	1	123A90-FDL-ST-DD90650/ 1	CWPAUB002	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
001701	5	123A90-FDL-ST-DD90650/ 1	CWPAUB002	600,000 MM	30,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	38.90	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001695	5	123A90-FDL-ST-DD90650/ 1	CWPAUB006	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
001696	6	123A90-FDL-ST-DD90650/ 1	CWPAUB006	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
001697	10	123A90-FDL-ST-DD90650/ 1	CWPAUB006	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
001698	1	123A90-FDL-ST-DD90650/ 1	CWPAUB006	600,000 MM	30,00	2A	FCAW	0.300 Mt	A
001699	10	123A90-FDL-ST-DD90650/ 1	CWPAUB005	600,000 MM	30,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 - SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator / Rosetti Marino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001694	10	123A90-FDL-ST-DD90456/ 1	CWWN062	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001693	5	123A90-FDL-ST-DD90456/ 1	CWWN028	340,000 MM	16,50	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator: Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001691	6	123A90-FDL-ST-DD90456/ 1	CWWN033	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001692	6	123A90-FDL-ST-DD90456/ 1	CWWN034	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE TESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Testita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	36°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan (weld-ex)	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001690	2	123A90-FDL-ST-DD90459/ 1	CWWN060	219,100 MM	8,20	2A	FCAW	0.835 Mt	A

NOTE / Remarks: Place temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator: Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (weld-ex)	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG
Phoenix-base m.	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001689	1	123A90-FDL-ST-DD90459/ 1	CWWN060	219,100 MM	8,20	2A	FCAW	0.835 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

PASQUALE VESTITA
ASNT - EN473 - ISO9712
Lev.II VT-MT-UT-PT

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan (weld-ex)	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001688	7	123A90-FDL-ST-DD90420 1	CWWS026	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Place temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator: Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	SHEAR
Pan (weld-ex)	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001687	3	123A90-FDL-ST-DD90420 1	CWWS026	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator: Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001685	1	123A90-FDL-ST-DD90420/ 1	CWWS026	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001686	6	123A90-FDL-ST-DD90420/ 1	CWWS026	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 08-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	70°	13	39.20	+6	+3	SHEAR
GE	73687	4	8x9	60°	58à	12	36.50	+6	+2	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (weld-ex)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001681	1	123A90-FDL-ST-DD90635/ 1	CWPAUP015	273,100 MM	15,90	2A	FCAW	0.400 Mt	A
001682	7	123A90-FDL-ST-DD90635/ 1	CWPAUP016	273,100 MM	15,90	2A	FCAW	0.400 Mt	A
001683	2	123A90-FDL-ST-DD90636/ 1	CWPAUP012	323,900 MM	12,70	2A	FCAW	0.500 Mt	A
001684	4	123A90-FDL-ST-DD90636/ 1	CWPAUP011	323,900 MM	12,70	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001679	2	123A90-FDL-ST-DD90195/ 1	CWBR002	550,000 MM	20,00	2A	FCAW	1.727 Mt	A
001680	2	123A90-FDL-ST-DD90196/ 1	CWBR028	550,000 MM	20,00	2A	FCAW	1.727 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rotondi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001678	2	123A90-FDL-ST-DD90287/ 1	CWLG003	271,100 MM	11,10	2A	FCAW	0.857 MI	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Tortorelli Massimiliano CONTROL Srl	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001674	1	123A90-FDL-ST-DD90251/ 1	CWUSB049	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001675	3	123A90-FDL-ST-DD90251/ 1	CWUSB049	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001676	4	123A90-FDL-ST-DD90251/ 1	CWUSB049	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001677	6	123A90-FDL-ST-DD90251/ 1	CWUSB049	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001673	2	123A90-FDL-ST-DD90636/ 1	CWPAUP009	323,900 MM	12,70	2A	FCAW	0.500 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001672	1	123A90-FDL-ST-DD90635/ 1	CWPAUP016	273,100 MM	15,90	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001671	1	123A90-FDL-ST-DD90636/ 1	CWPAUP010	323,900 MM	12,70	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morano Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001668	3	123A90-FDL-ST-DD90456/ 1	CWWN023	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001669	7	123A90-FDL-ST-DD90456/ 1	CWWN023	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001670	10	123A90-FDL-ST-DD90456/ 1	CWWN028	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001667	3	123A90-FDL-ST-DD90456/ 1	CWWN022	340,000 MM	16,50	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: De Cesare Martino CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N220	4	8x9	45°	45°	11	40.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001661	1	123A90-FDL-ST-DD90421/ 1	CWWS027	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001662	2	123A90-FDL-ST-DD90421/ 1	CWWS027	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001663	3	123A90-FDL-ST-DD90421/ 1	CWWS027	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001664	5	123A90-FDL-ST-DD90421/ 1	CWWS027	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001665	7	123A90-FDL-ST-DD90421/ 1	CWWS027	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001666	6	123A90-FDL-ST-DD90421/ 1	CWWS027	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SNC Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001660	28	123A90-FDL-ST-DD90421/ 1	CWWS027	340,000 MM	9,50	2A	FCAW	0.297 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: De Cesare Martino CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001657	1	123A90-FDL-ST-DD90458/ 1	CWWN007	273,100 MM	9,30	2A	FCAW	0.857 MT	A
001658	1	123A90-FDL-ST-DD90459/ 1	CWWN008	273,100 MM	9,30	2A	FCAW	0.857 MT	A
001659	1	123A90-FDL-ST-DD90461/ 1	CWWN009	273,100 MM	9,30	2A	FCAW	0.857 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001656	1	123A90-FDL-ST-DD90461/ 1	CWWN059	219,100 MM	8,20	2A	FCAW	0.835 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001655	1	123A90-FDL-ST-DD90457/ 1	CWWN015	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001652	2	123A90-FDL-ST-DD90454/ 1	CWWN071	337,200 MM	10,00	2A	FCAW	0.191 Mt	A
001653	3	123A90-FDL-ST-DD90454/ 1	CWWN077	337,200 MM	10,00	2A	FCAW	0.312 Mt	A
001654	4	123A90-FDL-ST-DD90454/ 1	CWWN077	337,200 MM	10,00	2A	FCAW	0.309 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001651	4	123A90-FDL-ST-DD90454/ 1	CWWN070	141,300 MM	6,50	2A	FCAW	0.704 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001648	5	123A90-FDL-ST-DD90453/ 1	CWWN053	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001649	6	123A90-FDL-ST-DD90453/ 1	CWWN053	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001650	1	123A90-FDL-ST-DD90454/ 1	CWWN070	337,200 MM	10,00	2A	FCAW	0.312 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Cognome De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	11	36.00	+6	+2	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001647	10	123A90-FDL-ST-DD90453/ 1	CWWN046	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001644	1	123A90-FDL-ST-DD90454/ 1	CWWN021	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001645	5	123A90-FDL-ST-DD90454/ 1	CWWN021	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001646	1	123A90-FDL-ST-DD90453/ 1	CWWN046	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 22°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Pol. Cesare Martino CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG	I961	4	3,5x10	0°			54.00			
IMG Base Mat.	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001643	4	123A90-FDL-ST-DD90353/ 1	CWULT004	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician/Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 02-07-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG	I961	4	3,5x10	0°			54.00			
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001642	2	123A90-FDL-ST-DD90353/ 1	CWULT004	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL Srl

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001641	7	123A90-FDL-ST-DD90454/ 1	CWWN001	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Pisce temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO SPA Operator: Vestita Pasquale PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001635	1	123A90-FDL-ST-DD90453/ 1	CWWN054	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001636	10	123A90-FDL-ST-DD90453/ 1	CWWN054	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001637	1	123A90-FDL-ST-DD90453/ 1	CWWN056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001638	5	123A90-FDL-ST-DD90453/ 1	CWWN056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001639	6	123A90-FDL-ST-DD90453/ 1	CWWN056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001640	10	123A90-FDL-ST-DD90453/ 1	CWWN056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Company: CONTROL Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. ba	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001634	6	123A90-FDL-ST-DD90453/ 1	CWWN054	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

PASQUALE VESTITA
ASNT - EN473 - ISO9712
Lev. II VT-MT-UT-PT

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001630	5	123A90-FDL-ST-DD90454/ 1	CWWN080	220,000 MM	12,50	2A	FCAW	0.080 Mt	A
001631	1	123A90-FDL-ST-DD90453/ 1	CWWN047	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001632	6	123A90-FDL-ST-DD90453/ 1	CWWN047	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001633	10	123A90-FDL-ST-DD90453/ 1	CWWN047	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: QCI CONTROL Operator: Vestita Pasquale PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001624	3	123A90-FDL-ST-DD90454/ 1	CWWN002	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001625	4	123A90-FDL-ST-DD90454/ 1	CWWN002	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001626	6	123A90-FDL-ST-DD90454/ 1	CWWN002	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001627	1	123A90-FDL-ST-DD90454/ 1	CWWN079	220,000 MM	12,50	2A	FCAW	0.080 MT	A
001628	5	123A90-FDL-ST-DD90454/ 1	CWWN079	220,000 MM	12,50	2A	FCAW	0.080 MT	A
001629	1	123A90-FDL-ST-DD90454/ 1	CWWN080	220,000 MM	12,50	2A	FCAW	0.080 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company / COMPANY PASQUALE VESTITA ASNT - EN473 - ISO9712 Level II - MT UT PT Operatori - Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001618	6	123A90-FDL-ST-DD90453/ 1	CWWN076	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001619	10	123A90-FDL-ST-DD90453/ 1	CWWN076	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001620	1	123A90-FDL-ST-DD90454/ 1	CWWN001	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001621	3	123A90-FDL-ST-DD90454/ 1	CWWN001	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001622	6	123A90-FDL-ST-DD90454/ 1	CWWN001	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001623	1	123A90-FDL-ST-DD90454/ 1	CWWN002	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA ASNT EN473 ISO9712 Lev.II VT-MT-UT-PT Company: CONTROL Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001612	1	123A90-FDL-ST-DD90453/ 1	CWWN057	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001613	5	123A90-FDL-ST-DD90453/ 1	CWWN057	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001614	1	123A90-FDL-ST-DD90453/ 1	CWWN058	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001615	5	123A90-FDL-ST-DD90453/ 1	CWWN058	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001616	6	123A90-FDL-ST-DD90453/ 1	CWWN058	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001617	10	123A90-FDL-ST-DD90453/ 1	CWWN058	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator: Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
pan (Weld ex.)	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001609	7	123A90-FDL-ST-DD90407/ 1	CWWN023	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001610	9	123A90-FDL-ST-DD90407/ 1	CWWN023	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001611	13	123A90-FDL-ST-DD90407/ 1	CWWN023	273,100 MM	11,13	2A	FCAW	0.388 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
pan (Weld ex.)	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001605	1	123A90-FDL-ST-DD90430/ 1	CWWS047	273,100 MM	9,30	2A	FCAW	0.510 Mt	A
001606	2	123A90-FDL-ST-DD90430/ 1	CWWS047	273,100 MM	9,30	2A	FCAW	0.400 Mt	A
001607	1	123A90-FDL-ST-DD90432/ 1	CWWS069	273,100 MM	9,30	2A	FCAW	0.515 Mt	A
001608	2	123A90-FDL-ST-DD90432/ 1	CWWS069	273,100 MM	9,30	2A	FCAW	0.530 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
pan (Weld ex.)	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001603	8	123A90-FDL-ST-DD90406/ 1	CWWN022	340,000 MM	9,50	2A	FCAW	0.243 Mt	A
001604	13	123A90-FDL-ST-DD90406/ 1	CWWN022	273,100 MM	11,13	2A	FCAW	0.388 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
PAN (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
pan (Weld ex.)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001602	7	123A90-FDL-ST-DD90406/ 1	CWWN022	340,000 MM	16,50	2A	FCAW	0.300 MI	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
PAN (mat, base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001601	5	123A90-FDL-ST-DD90406/ 1	CWWN022	340,000 MM	16,50	2A	FCAW	0.064 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Vestita Pasquale PASQUALE VESTITA ASNT - EN 473 - ISO9712 Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
pan (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001600	1	123A90-FDL-ST-DD90406/ 1	CWWN022	340,000 MM	16,50	2A	FCAW	0.064 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
PAN (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001597	5	123A90-FDL-ST-DD90456/ 1	CWWN035	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001598	2	123A90-FDL-ST-DD90407/ 1	CWWN023	340,000 MM	16,50	2A	FCAW	0.064 MT	A
001599	4	123A90-FDL-ST-DD90407/ 1	CWWN023	340,000 MM	16,50	2A	FCAW	0.064 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: PASQUALE VESTITA CONTROLLI ASNT CP-189 - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	44°	11	40.00	+6	+2	SHEAR
Krautkramer	06631	4	8x9	60°	58°	12	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	70°	13	44.00	+6	+3	SHEAR
PAN (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001596	7	123A90-FDL-ST-DD90456/ 1	CWWN023	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA Company: CONTROL ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
PAM (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001595	6	123A90-FDL-ST-DD90456/ 1	CWWN028	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
PAN (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001594	3	123A90-FDL-ST-DD90456/ 1	CWWN022	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: QUALITEST ASNT - EN473 - ISO9712 Lev. II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
SIUI	SMARTOR	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	5905	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	5905	4	3,5x10	0°			36.00			
IMG ULTRASUONI	6239	2	14x14	60°	59.2°	11	36.00	+6	+2	SHEAR
IMG ULTRASUONI	I884	2	14x14	45°	45°	10	36.00	+6	+2	SHEAR
OLYMPUS	1298079	2	14x14	70°	68°	12	36.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001593	4	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Greco Mattia	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DTA After Cutting	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
SIUI	SMARTOR	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	5905	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	5905	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	6239	2	14x14	60°	59.2°	11	36.00	+6	+2	SHEAR
IMG ULTRASUONI	I884	2	14x14	45°	45°	10	36.00	+6	+2	SHEAR
OLYMPUS	1298079	2	14x14	70°	68°	12	36.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001590	2	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	2A	FCAW	2.268 Mt	A
001591	4	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	2A	FCAW	2.268 Mt	A
001592	2	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Cerasoli Mattia CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-06-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841450265	2	14x14	45°	44°	11	35.80	+6	+2	SHEAR
GE	5841550195	2	14x14	60°	58°	12	39.40	+6	+2	SHEAR
GE	5841650501	2	14x14	70°	70°	13	40.10	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001588	4	123A90-FDL-ST-DD90201/ 1	CWUPG002	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
001589	6	123A90-FDL-ST-DD90201/ 1	CWUPG002	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Barchiesi	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL Snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	70°	13	39.20	+6	+3	SHEAR
GE	73687	4	8x9	60°	58°	12	36.50	+6	+2	SHEAR
GE	75800	4	8x9	45°	44°	11	37.30	+6	+2	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001587	5	123A90-FDL-ST-DD90201/ 1	CWUPG002	920,000 MM	20,00	2A	FCAW	0.920 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	9

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
GE	USM GO	09122034	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
T-AC-3	100	I.I.W.-V1-V2	SDH 3mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
PRONDT	178220	4	3,5x10	0°	0	0	0	12	/	LONG
PRONDT	203112	4	8x9	45°	44	11	45	6	3	SHEAR
PRONDT	203210	4	8x9	60°	58	9	45	6	3	SHEAR
PRONDT	203308	4	8x9	70°	69	12	40	6	3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001586	1	123A90-FDL-ST-DD90638/ 1	CWLG020	700,000 MM	30,00	1D	GMAW+SAW	0.300 Mt	A

NOTE / Remarks: The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
ANTARES CONTROLLI Company: Antares Controlli Righetto Davide II° Liv. SNT-TC1A / ISO 9712 Operator: Righetto Davide	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.6°	13	42.10	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.2°	11	39.40	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001584	2	123A90-FDL-ST-DD90490/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	1.300 Mt	A
001585	4	123A90-FDL-ST-DD90490/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	2.300 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	70°	13	39.20	+6	+3	SHEAR
GE	73687	4	8x9	60°	58°	12	36.50	+6	+2	SHEAR
GE	75800	4	8x9	45°	44°	11	37.30	+6	+2	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001583	1	123A90-FDL-ST-DD90494/ 1	CWLG019	700,000 MM	30,00	1C	FCAW+SAW	0.220 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.70	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001582	4	123A90-FDL-ST-DD90490/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	11.800 Mt	R

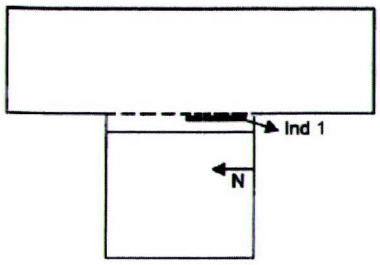
NOTE / Remarks

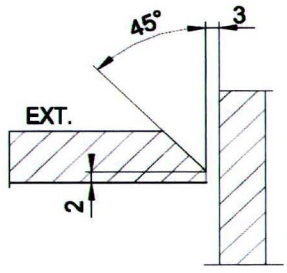
TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	PCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI ULTRASONIC TEST CERTIFICATE	N° 001582	Pag 2 di 2
		Data/date: 18/06/2024	
Progetto / Project	BASE LOAD POWER HUB (BHLPH)	Commessa / Job 123A90	
Cliente / Client	CROSSWIND	Disegno / Dwg 90490	

SCHIZZO - Sketch
Scanning Position

1 ■ 70°
2 □
3 □
4 □
5 □
6 □
7 □





DETAIL 9

PER SALDATURA 4I (MARK. CWTP006)

LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION

q	DISTANZA DIFETTO - ASSE SALDATURA Flaw - Weld axis distance	Δh	ALTEZZA DELL'INDICAZIONE Flaw height
H	AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude (or indication "A" AWS)	Δd	DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	PUNTO DI RIFERIMENTO Reference point	EF	DIFETTO EQUIVALENTE Equivalent flaw
L	DISTANZA INDICAZIONE DA "N" Flaw distance from "N"	Δl	LUNGHEZZA INDICAZIONE Flaw lenght
A/ R	ACCETTABILE / RIPARARE Acceptable / Repair	P	PROFONDITA' INDICAZIONE Flaw depth
P.us	PERCORSO ULTRASONORO Ultrasonic path	D	DISTANZA ASSE SONDA - ASSE SALDATURA Sound beam - weld axis distance

Ind. nr	H	EF	Δ l (mm)	P (mm)	Δ h	q (mm)	D	Δ D	L (mm)	N	P.us (mm)	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-10dB	/	170	15	/	-6	/	/	2100	→	45	1	R	69	Planar

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party
Operator: Brahim Moujoud	FCM Group srl		

MOD-QCI-34 2020-00

Quality Control Dept.
Cerato Alex
per Rosetti Marino SpA

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.70	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001581	3	123A90-FDL-ST-DD90490/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.70	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001580	2	123A90-FDL-ST-DD90490/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	11.800 Mt	R

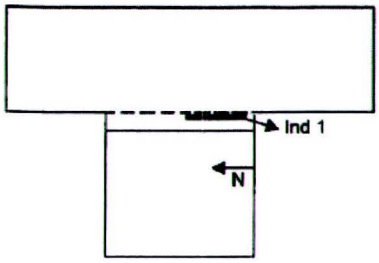
NOTE / Remarks

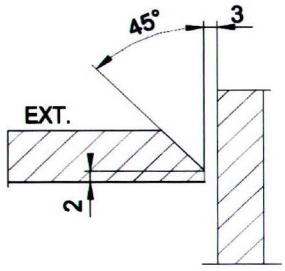
TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCW Group srl Quality Control Dept. Cerato Alex per Rosetti Marino SpA			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI ULTRASONIC TEST CERTIFICATE	N° 001580	Pag 2 di 2
		Data/date: 18/06/2024	
Progetto / Project	**BASE LOAD POWER HUB (BHLPH)**	Commessa / Job 123A90	
Cliente / Client	**CROSSWIND**	Disegno / Dwg 90490	

SCHIZZO - Sketch
Scanning Position

1 ■ 70°
2 □
3 □
4 □
5 □
6 □
7 □





DETAIL 9

PER SALDATURA 2I (MARK. CWTP006)

LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION

q	DISTANZA DIFETTO - ASSE SALDATURA Flaw - Weld axis distance	Δh	ALTEZZA DELL'INDICAZIONE Flaw height
H	AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude (or indication "A" AWS)	Δd	DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	PUNTO DI RIFERIMENTO Reference point	EF	DIFETTO EQUIVALENTE Equivalent flaw
L	DISTANZA INDICAZIONE DA "N" Flaw distance from "N"	Δl	LUNGHEZZA INDICAZIONE Flaw lenght
A/ R	ACCETTABILE / RIPARARE Acceptable / Repair	P	PROFONDITA' INDICAZIONE Flaw depth
P.us	PERCORSO ULTRASONORO Ultrasonic path	D	DISTANZA ASSE SONDA - ASSE SALDATURA Sound beam - weld axis distance

Ind. nr	H	EF	Δ l (mm)	P (mm)	Δ h	q (mm)	D	Δ D	L (mm)	N	P.us (mm)	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-10dB	/	200	17	/	-4	/	/	1100	→	45	1	R	69	Planar
2	-10dB	/	120	13	/	-8	/	/	1068	→	45	1	R	69	Planar

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party
Operator: Brahim Moujoud	FCM Group srl		

MOD-QCI-34 2020-00

Quality Control Dept.
Cerato Alex
per Rosetti Marino SpA

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.70	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001579	1	123A90-FDL-ST-DD90490/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001576	1	123A90-FDL-ST-DD90451/ 1	CWWN018	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001577	6	123A90-FDL-ST-DD90450/ 1	CWWN024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001578	10	123A90-FDL-ST-DD90450/ 1	CWWN024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001572	14	123A90-FDL-ST-DD90074/ 1	CWUPG001	323,900 MM	12,70	2A	FCAW	0.223 Mt	A
001573	15	123A90-FDL-ST-DD90074/ 1	CWUPG001	323,900 MM	12,70	2A	FCAW	0.223 Mt	A
001574	10	123A90-FDL-ST-DD90075/ 1	CWUPG002	323,900 MM	12,70	2A	FCAW	0.223 Mt	A
001575	11	123A90-FDL-ST-DD90075/ 1	CWUPG002	323,900 MM	12,70	2A	FCAW	0.223 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	+	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001571	13	123A90-FDL-ST-DD90074/ 1	CWUPG001	323,900 MM	12,70	2A	FCAW	0.223 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001568	8	123A90-FDL-ST-DD90075/ 1	CWUPG002	323,900 MM	12,70	2A	FCAW	0.223 Mt	A
001569	9	123A90-FDL-ST-DD90075/ 1	CWUPG002	323,900 MM	12,70	2A	FCAW	0.223 Mt	A
001570	12	123A90-FDL-ST-DD90074/ 1	CWUPG001	323,900 MM	12,70	2A	FCAW	0.223 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	61°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001564	10	123A90-FDL-ST-DD90202/ 1	CWUPG031	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
001565	6	123A90-FDL-ST-DD90201/ 1	CWUPG030	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
001566	10	123A90-FDL-ST-DD90201/ 1	CWUPG030	400,000 MM	40,00	2A	FCAW	0.400 Mt	A
001567	6	123A90-FDL-ST-DD90202/ 1	CWUPG031	400,000 MM	40,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001562	4	123A90-FDL-ST-DD90200/ 1	CWUPG045	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001563	8	123A90-FDL-ST-DD90200/ 1	CWUPG045	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Place temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (mat. base	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001561	5	123A90-FDL-ST-DD90199/ 1	CWUPG001	920,000 MM	20,00	2A	FCAW	0.920 MI	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL ITROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	4336	2	14x14	70°	72°	12	42.10	+6	+3	SHEAR
GE	52414	2	14x14	60°	61°	11	39.60	+6	+2	SHEAR
Olympus	130091S	2	14x14	45°	45°	10	36.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001559	4	123A90-FDL-ST-DD90199/ 1	CWUPG001	500,000 MM	40,00	2A	FCAW	0.500 Mt	A
001560	6	123A90-FDL-ST-DD90199/ 1	CWUPG001	500,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Place temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001558	1	123A90-FDL-ST-DD90491/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	1.900 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001554	9	123A90-FDL-ST-DD90489/ 1	CWTP008	414,000 MM	20,00	2A	FCAW	0.420 Mt	A
001555	10	123A90-FDL-ST-DD90489/ 1	CWTP008	414,000 MM	20,00	2A	FCAW	0.950 Mt	A
001556	11	123A90-FDL-ST-DD90489/ 1	CWTP008	414,000 MM	20,00	2A	FCAW	0.950 Mt	A
001557	12	123A90-FDL-ST-DD90489/ 1	CWTP008	414,000 MM	20,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001544	5	123A90-FDL-ST-DD90450/ 1	CWWN025	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001545	1	123A90-FDL-ST-DD90450/ 1	CWWN027	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan.-base mat.	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001541	2	123A90-FDL-ST-DD90451/ 1	CWWN029	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
001542	5	123A90-FDL-ST-DD90450/ 1	CWWN027	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001543	1	123A90-FDL-ST-DD90450/ 1	CWWN025	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001540	6	123A90-FDL-ST-DD90451/ 1	CWWN029	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Vestita Pasquale CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
PAN (mat. base)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001539	5	123A90-FDL-ST-DD90450/ 1	CWWN081	220,000 MM	12,50	2A	FCAW	0.080 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT/MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Tnk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001537	6	123A90-FDL-ST-DD90451/ 1	CWWN018	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001538	10	123A90-FDL-ST-DD90450/ 1	CWWN026	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Phoenix-base m.	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001535	6	123A90-FDL-ST-DD90451/ 1	CWWN030	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001536	10	123A90-FDL-ST-DD90451/ 1	CWWN018	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator - Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.80	+12	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001534	2	123A90-FDL-ST-DD90491/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001533	1	123A90-FDL-ST-D090491/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	11.800 Mt	R

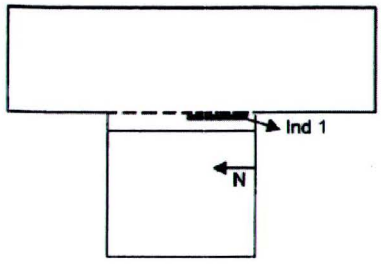
NOTE / Remarks

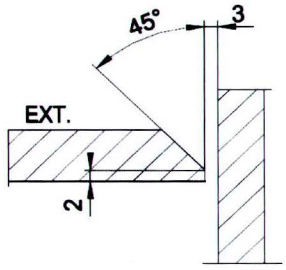
TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI ULTRASONIC TEST CERTIFICATE	N° 001533	Pag 2 di 2
		Data/date: 18/06/2024	
Progetto / Project	BASE LOAD POWER HUB (BHLPH)	Commessa / Job 123A90	
Cliente / Client	CROSSWIND	Disegno / Dwg 90491	

SCHIZZO - Sketch
Scanning Position

1 ■ 70°
2 □
3 □
4 □
5 □
6 □
7 □





DETAIL 9

PER SALDATURA 1I

LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION

q	DISTANZA DIFETTO - ASSE SALDATURA Flaw - Weld axis distance	Δh	ALTEZZA DELL'INDICAZIONE Flaw height
H	AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude (or indication "A" AWS)	Δd	DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	PUNTO DI RIFERIMENTO Reference point	EF	DIFETTO EQUIVALENTE Equivalent flaw
L	DISTANZA INDICAZIONE DA "N" Flaw distance from "N"	Δl	LUNGHEZZA INDICAZIONE Flaw lenght
A/ R	ACCETTABILE / RIPARARE Acceptable / Repair	P	PROFONDITA' INDICAZIONE Flaw depth
P.us	PERCORSO ULTRASONORO Ultrasonic path	D	DISTANZA ASSE SONDA - ASSE SALDATURA Sound beam - weld axis distance

Ind. nr	H	EF	Δ l (mm)	P (mm)	Δ h	q (mm)	D	Δ D	L (mm)	N	P.us (mm)	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-10dB	/	130	14	/	-5	/	/	1700	←	45	1	R	69	Planar

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party
Operator: Brahim Moujoud	FCM Group srl		

MOD-QCI-34 2020-00

Quality Control Dept.
Cerato Alex
per Rosetti Marino SpA

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 15-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00098 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6°	11	39.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001532	4	123A90-FDL-ST-DD90491/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 15-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	25.00	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59°	15	43.60	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	69.6	11	39.80	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001531	3	123A90-FDL-ST-DD90491/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001527	2	123A90-FDL-ST-DD90630/ 1	CWPAUN002	457,200 MM	19,10	2A	FCAW	0.718 Mt	A
001528	2	123A90-FDL-ST-DD90630/ 1	CWPAUN003	457,200 MM	19,10	2A	FCAW	0.718 Mt	A
001529	2	123A90-FDL-ST-DD90631/ 1	CWPAUN005	406,400 MM	15,90	2A	FCAW	0.638 Mt	A
001530	2	123A90-FDL-ST-DD90631/ 1	CWPAUN008	406,400 MM	15,90	2A	FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propegation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.R.L. PASQUALE TESTITA CONTROL S.R.L. Level II NDT - EN ISO 9712 Validity: 11/07/2027 Firma / Signature	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (BASE MAT)	1448065	4	3,5x10	0°	0°	\	25.00	\	\	LONG
OLY (WELD EX)	1448065	4	3,5x10	0°	0°	\	25.00	\	\	LONG
OLYMPUS AM4	1427774	4	8x9	60°	59.1°	15	43.00	+14	-2	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	70°	12	38.60	+14	-2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001526	1	123A90-FDL-ST-DD90488/ 1	CWTP005	944,000 MM	20,00	1D	GMAW+SAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group Srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001524	3	123A90-FDL-ST-DD90313/ 1	CWUTB035	240,000 MM	9,80	2A	FCAW	0.120 MI	A
001525	5	123A90-FDL-ST-DD90313/ 1	CWUTB035	240,000 MM	9,80	2A	FCAW	0.120 MI	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001522	3	123A90-FDL-ST-DD90314/ 1	CWUTB172	240,000 MM	9,80	2A	FCAW	0.120 MI	A
001523	1	123A90-FDL-ST-DD90314/ 1	CWUTB149	240,000 MM	9,80	2A	FCAW	0.120 MI	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001519	3	123A90-FDL-ST-DD90313/ 1	CWUTB100	240,000 MM	9,80	2A	FCAW	0.120 MT	A
001520	5	123A90-FDL-ST-DD90313/ 1	CWUTB100	240,000 MM	9,80	2A	FCAW	0.120 MT	A
001521	5	123A90-FDL-ST-DD90313/ 1	CWUTB101	240,000 MM	9,80	2A	FCAW	0.120 MT	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001518	1	123A90-FDL-ST-DD90494/ 1	CWLG019	700,000 MM	30,00	1C	FCAW+SAW	2.198 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001514	12	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001515	13	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.590 Mt	A
001516	14	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001517	15	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.590 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001508	14	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001509	15	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.590 Mt	A
001510	8	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001511	9	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.590 Mt	A
001512	10	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001513	11	123A90-FDL-ST-DD90353/ 1	CWULT004	299,500 MM	25,00	2A	FCAW	0.590 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001502	8	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001503	9	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.590 Mt	A
001504	10	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001505	11	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.590 Mt	A
001506	12	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.962 Mt	A
001507	13	123A90-FDL-ST-DD90353/ 1	CWULT003	299,500 MM	25,00	2A	FCAW	0.590 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
SIUI	SMARTOR	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	5905	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	5905	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	6239	4	8x9	60°	59.2°	11	36.00	+6	+2	SHEAR
OLYMPUS	1298079	4	8x9	70°	68°	12	36.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBENATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001501	1	123A90-FDL-ST-DD90571/ 1	CWTPW076	273,100 MM	12,70	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Greco Mario CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
SIUI	SMARTOR	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	5905	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	5905	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	6239	4	8x9	60°	59.2°	11	36.00	+6	+2	SHEAR
OLYMPUS	1298079	4	8x9	70°	68°	12	36.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001495	2	123A90-FDL-ST-DD90571/ 1	CWTPW076	273,100 MM	12,70	2A	FCAW	0.857 MT	A
001496	1	123A90-FDL-ST-DD90567/ 1	CWTPW080	273,100 MM	12,70	2A	FCAW	0.857 MT	A
001497	2	123A90-FDL-ST-DD90567/ 1	CWTPW080	273,100 MM	12,70	2A	FCAW	0.857 MT	A
001498	2	123A90-FDL-ST-DD90569/ 1	CWTPW065	219,100 MM	10,30	2A	FCAW	0.687 MT	A
001499	2	123A90-FDL-ST-DD90569/ 1	CWTPW066	219,100 MM	10,30	2A	FCAW	0.687 MT	A
001500	2	123A90-FDL-ST-DD90570/ 1	CWTPW068	219,100 MM	10,30	2A	FCAW	0.687 MT	A

NOTE / Remarks: Piece temperature: from 17°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Greco Mattia	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001494	6	123A90-FDL-ST-DD90453/ 1	CWWN055	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Cognome, Nome: PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001493	1	123A90-FDL-ST-DD90453/ 1	CWWN055	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROLTA PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II PT - MT UT RT Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001491	1	123A90-FDL-ST-DD90451/ 1	CWWN019	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001492	6	123A90-FDL-ST-DD90451/ 1	CWWN019	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Operator Vestita Pasquale Lev.II VT-MT-UT-PT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001490	3	123A90-FDL-ST-DD90393/ 1	CWWN029	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan.-base mat.	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001489	2	123A90-FDL-ST-DD90393/ 1	CWWN029	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
PASQUALE VESTITA Company: CONTROL ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+0	SHEAR
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001488	1	123A90-FDL-ST-DD90393/ 1	CWWN029	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 20°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
QUALITY CONTROL PASQUALE VESTITA ASNT - EN473 - ISO9712 Lev.II VT-MT-UT-PT Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	34.30	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	36.40	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58,5°	12	36.00	+12	+3	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68,5°	13	33.60	+12	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001487	4	123A90-FDL-ST-DD90489/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	36.40	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	34.40	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58,5°	12	36.00	+12	+3	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68,5°	13	33.60	+12	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001486	3	123A90-FDL-ST-DD90489/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	36.40	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	33.40	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.5°	12	36.00	+12	+3	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68,5°	13	33.60	+12	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001485	2	123A90-FDL-ST-DD90489/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME

CWTP 008

DATA DELL'ESAME / Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	ST Structure

CODICE PROCEDURA / Procedure code		UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SP	0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	F	8.0

OGGETTO / Object	MATERIALE	Id Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S42	☒ NON APPLICABILE Not Applicable

STA

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ ☐ LAMINATO As rolled ☐ GREZZO As forged ☐ As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLY (base mat)	1448065	4	3,5x10	0°	0°	/	33.40	/	/	LONG
OLY (weld ex)	1448065	4	3,5x10	0°	0°	/	36.40	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58.5°	12	36.00	+12	+3	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68.5°	13	33.60	+12	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001484	1	123A90-FDL-ST-DD90489/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYM (base mat)	1448065	4	3,5x10	0°	0°	/	33.40	/	/	LONG
OLYM (weld ex)	1448065	4	3,5x10	0°	0°	/	36.40	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58,5°	12	36.00	+12	+3	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68,5°	13	33.60	+12	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001483	4	123A90-FDL-ST-DD90488/ 1	CWTP005	944,000 MM	20,00	1C	FCAW+SAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	201094406	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 L	100% ACCEPTABLE	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
OLYM (base mat)	1448065	4	3,5x10	0°	0°	/	34.30	/	/	LONG
OLYM (weld ex)	1448065	4	3,5x10	0°	0°	/	36.40	/	/	LONG
OLYMPUS AM4	1427774	4	8x9	60°	58,5°	12	36.00	+12	+3	SHEAR
OLYMPUS AM4R	1450089	4	8x9	70°	68,5°	13	33.60	+12	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001481	2	123A90-FDL-ST-DD90488/ 1	CWTP005	944,000 MM	20,00	1C	FCAW+SAW	11.800 Mt	A
001482	3	123A90-FDL-ST-DD90488/ 1	CWTP005	944,000 MM	20,00	1D	GMAW+SAW	11.800 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: TRATERM Operator: Brahim Moujoud	FCM Group srl	Quality Control Dept. Cerato Alex per Rosetti Marino SpA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 11-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	68°	12	39.20	+6	+3	SHEAR
GE	73687	4	8x9	60°	57.7°	12	36.50	+6	+2	SHEAR
GE (base-mat)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001480	1	123A90-FDL-ST-DD90575/ 1	CWTPW019	219,100 MM	10,31	1A	GTAW+FCAW	0.688 Mt	A

NOTE / Remarks: Piece temperature: from 12°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001479	5	123A90-FDL-ST-DD90253/ 1	CWUSB111	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 12°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001478	1	123A90-FDL-ST-DD90253/ 1	CWUSB111	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 12°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	9

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
GE	USM GO	09122034	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
T-AC-3	100	I.I.W.-V1-V2	SDH 3mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
PRONDT	178220	4	3,5x10	0°	0	0	0	12	/	LONG
PRONDT	203112	4	8x9	45°	44	11	45	6	3	SHEAR
PRONDT	203210	4	8x9	60°	58	9	45	6	3	SHEAR
PRONDT	203308	4	8x9	70°	69	12	40	6	3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001477	3	123A90-FDL-ST-DD90494/ 1	CWLG019	700,000 MM	30,00	1D	GMAW+SAW	3.000 Mt	A

NOTE / Remarks: The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
ANTARES CONTROLLI Righetto Davide II° Liv. SNT-TC1A / ISO 9712 Company: Antares Controlli Operator: Righetto Davide	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	9

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
GE	USM GO	09122034	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
T-AC-3	100	I.I.W.-V1-V2	SDH 3mm	Reflection	ON DISTANCE

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
PRONDT	178220	4	3,5x10	0°	0	0	0	12	/	LONG
PRONDT	203112	4	8x9	45°	44	11	45	6	3	SHEAR
PRONDT	203210	4	8x9	60°	58	9	45	6	3	SHEAR
PRONDT	203308	4	8x9	70°	69	12	40	6	3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001476	2	123A90-FDL-ST-DD90494/ 1	CWLG019	700,000 MM	30,00	1D	GMAW+SAW	3.000 Mt	A

NOTE / Remarks: The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
ANTARES CONTROLLI Company: Antares Controlli Righetto Davide II° Liv. SNT-TC1A / ISO 9712 Operator: Righetto Davide	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001475	2	123A90-FDL-ST-DD90566/ 1	CWTPW079	273,100 MM	12,70	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
CONTROL snc Operator Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	10	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	73°	14	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001474	3	123A90-FDL-ST-DD90394/ 1	CWWN030	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle		EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
				NOMINALE Nominal (°)	EFFETTIVO Actual (°)					
Krautkramer	06631	4	8x9	60°	63°	10	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	73°	14	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001470	1	123A90-FDL-ST-DD90453/ 1	CWWN076	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001471	5	123A90-FDL-ST-DD90453/ 1	CWWN020	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001472	10	123A90-FDL-ST-DD90453/ 1	CWWN020	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001473	10	123A90-FDL-ST-DD90453/ 1	CWWN057	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Vestita Pasquale CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+2	SHEAR
Krautkramer	06631	4	8x9	60°	63°	10	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	73°	14	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001466	6	123A90-FDL-ST-DD90394/ 1	CWWN030	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001467	10	123A90-FDL-ST-DD90450/ 1	CWWN027	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001468	1	123A90-FDL-ST-DD90450/ 1	CWWN026	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001469	5	123A90-FDL-ST-DD90450/ 1	CWWN026	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks Pisce temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+2	SHEAR
Krautkramer	06631	4	8x9	60°	63°	10	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	73°	14	44.00	+6	+4	SHEAR
Pan.-base mat.	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001464	1	123A90-FDL-ST-DD90394/ 1	CWWN030	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001465	5	123A90-FDL-ST-DD90394/ 1	CWWN030	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SRL Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	03837	4	8x9	45°	45°	10	40.00	+6	+2	SHEAR
Krautkramer	06631	4	8x9	60°	63°	10	42.00	+6	+2	SHEAR
Krautkramer	22679	4	8x9	70°	73°	14	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001462	1	123A90-FDL-ST-DD90450/ 1	CWWN024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001463	5	123A90-FDL-ST-DD90450/ 1	CWWN024	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
SIUI	SMARTOR	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	5905	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	5905	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
IMG ULTRASUONI	6239	4	8x9	60°	59.2°	11	36.00	+6	+2	SHEAR
OLYMPUS	1298079	4	8x9	70°	68°	12	36.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001457	2	123A90-FDL-ST-DD90567/ 1	CWTPW067	219,100 MM	10,30	2A	FCAW	0.687 MT	A
001458	1	123A90-FDL-ST-DD90569/ 1	CWTPW065	219,100 MM	10,30	2A	FCAW	0.687 MT	A
001459	1	123A90-FDL-ST-DD90569/ 1	CWTPW066	219,100 MM	10,30	2A	FCAW	0.687 MT	A
001460	1	123A90-FDL-ST-DD90570/ 1	CWTPW068	219,100 MM	10,30	2A	FCAW	0.687 MT	A
001461	1	123A90-FDL-ST-DD90570/ 1	CWTPW069	219,100 MM	10,30	2A	FCAW	0.687 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Greco Mattia	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001456	2	123A90-FDL-ST-DD90565/ 1	CWTPW060	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rendazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comanducci Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001452	1	123A90-FDL-ST-DD90353/ 1	CWULT004	700,000 MM	35,00	2A	FCAW	4.524 MT	A
001453	3	123A90-FDL-ST-DD90353/ 1	CWULT004	700,000 MM	35,00	2A	FCAW	4.524 MT	A
001454	1	123A90-FDL-ST-DD90353/ 1	CWULT003	700,000 MM	35,00	2A	FCAW	4.524 MT	A
001455	3	123A90-FDL-ST-DD90353/ 1	CWULT003	700,000 MM	35,00	2A	FCAW	4.524 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-06-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8,0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001450	1	123A90-FDL-ST-DD90572/ 1	CWTPW056	219,100 MM	10,30	2A	FCAW	0.687 MT	A
001451	1	123A90-FDL-ST-DD90574/ 1	CWTPW061	219,100 MM	10,30	2A	FCAW	0.687 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001449	1	123A90-FDL-ST-DD90572/ 1	CWTPW055	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001448	6	123A90-FDL-ST-DD90251/ 1	CWUSB010	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

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TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001443	25	123A90-FDL-ST-DD90058/ 1	CWLNO010	669,000 MM	30,00	2A	FCAW	0.950 Mt	A
001444	26	123A90-FDL-ST-DD90058/ 1	CWLNO010	669,000 MM	30,00	2A	FCAW	0.950 Mt	A
001445	27	123A90-FDL-ST-DD90058/ 1	CWLNO010	669,000 MM	30,00	2A	FCAW	0.697 Mt	A
001446	30	123A90-FDL-ST-DD90058/ 1	CWLNO010	326,700 MM	30,00	2A	FCAW	0.171 Mt	A
001447	32	123A90-FDL-ST-DD90058/ 1	CWLNO010	326,700 MM	30,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PA-RT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001437	7	123A90-FDL-ST-DD90181/ 1	CWLNO010	327,800 MM	30,00	2A	FCAW	0.171 Mt	A
001438	9	123A90-FDL-ST-DD90181/ 1	CWLNO010	326,700 MM	30,00	2A	FCAW	0.171 Mt	A
001439	6	123A90-FDL-ST-DD90181/ 1	CWLNO010	326,700 MM	30,00	2A	FCAW	0.950 Mt	A
001440	28	123A90-FDL-ST-DD90058/ 1	CWLNO010	327,800 MM	30,00	2A	FCAW	0.171 Mt	A
001441	33	123A90-FDL-ST-DD90058/ 1	CWLNO010	327,800 MM	30,00	2A	FCAW	0.950 Mt	A
001442	5	123A90-FDL-ST-DD90181/ 1	CWLNO010	327,800 MM	30,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
L'esame MUT non è stato eseguito come IDL-QCI-UT-223 posizione "C" a causa della mancanza di accesso

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONSEL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RT-ET-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	38.90	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001433	1	123A90-FDL-ST-DD90181/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.130 Mt	A
001434	2	123A90-FDL-ST-DD90181/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.130 Mt	A
001435	3	123A90-FDL-ST-DD90181/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.130 Mt	A
001436	4	123A90-FDL-ST-DD90181/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.130 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 01-06-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001432	2	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore Operator: Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001431	4	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore Operatore Qualificato II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001430	4	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	ACQUA+METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001429	2	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	2A	FCAW	2.268 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore II Level NDT Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-04-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	61°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	72°	12	35.80	+6	+2	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001128	1	123A90-FDL-ST-DD90255/ 1	CWUSB156	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SYSTEM Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-02-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	13	38.80	+6	+3	SHEAR
GE	5692985695	4	8x9	70°	69.3°	11	35.80	+6	+4	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
000309	2	123A90-FDL-ST-DD90289/ 1	CWLG008	406,400 MM	12,70	1A	GTAW+FCAW	0.638 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	39.30	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	40.10	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	38.90	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001425	36	123A90-FDL-ST-DD90058/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.235 MT	A
001426	37	123A90-FDL-ST-DD90058/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.235 MT	A
001427	38	123A90-FDL-ST-DD90058/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.235 MT	A
001428	39	123A90-FDL-ST-DD90058/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.235 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC-1A VT-MT-PT-UT-FD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001423	34	123A90-FDL-ST-DD90058/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.800 MT	A
001424	35	123A90-FDL-ST-DD90058/ 1	CWLNO010	142,000 MM	25,00	2A	FCAW	0.800 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator: Morandi Massimiliano	CONTROL snc ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841450265	2	14x14	45°	45°	11	35.80	+6	+2	SHEAR
GE	5841550195	2	14x14	60°	57.7°	12	39.40	+6	+2	SHEAR
GE	5841650501	2	14x14	70°	68°	12	40.10	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (weld exam.)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001422	3	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	2A	FCAW	4.524 Mt	A

NOTE / Remarks: Pisce temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL S.N.C. Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841450265	2	14x14	45°	45°	11	35.80	+6	+2	SHEAR
GE	5841550195	2	14x14	60°	57.7°	12	39.40	+6	+2	SHEAR
GE	5841650501	2	14x14	70°	68°	12	40.10	+6	+3	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (weld exam.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001421	1	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	2A	FCAW	4.524 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Baldi Luca CONTROL S.N.C.	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	68°	12	39.20	+6	+3	SHEAR
GE	73687	4	8x9	60°	57.7°	12	36.50	+6	+2	SHEAR
GE (base mat.)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG
GE (weld exam.)	5746350569	4	3,5x10	0°	0°	/	39.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001420	6	123A90-FDL-ST-DD90353/ 1	CWULT004	740,000 MM	25,00	2A	FCAW	2.320 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL S.N.C. Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	54.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001419	7	123A90-FDL-ST-DD90353/ 1	CWULT003	740,000 MM	25,00	2A	FCAW	2.320 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Randazzo Salvatore II Level NDT Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-05-2024

FOGLIO / Sheet n° 1 of 7

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5841451744	2	14x14	45°	45°	10	39.50	+6	+2	SHEAR
GE	5841551910	2	14x14	60°	58°	11	37.00	+6	+2	SHEAR
GE	5841651821	2	14x14	70°	69°	11	39.80	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001417	1	123A90-FDL-ST-DD90353/ 1	CWULT001	700,000 MM	35,00	2A	FCAW	4.524 Mt	A
001418	3	123A90-FDL-ST-DD90353/ 1	CWULT002	700,000 MM	35,00	2A	FCAW	4.524 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
MUT examination has been not performed as IDL-QCI-UT-224 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore Randazzo Salvatore II Level NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001416	2	123A90-FDL-ST-DD90430/ 1	CWWS047	273,100 MM	9,30	2A	FCAW	0.857 Mt	R

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 001416	Pag 2 di 2
		Data/date: 24/05/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90430**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

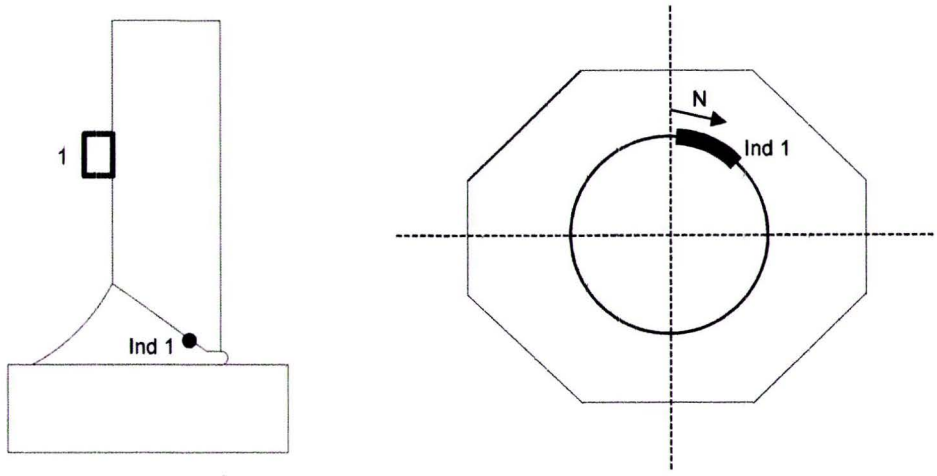
4 ☐

5 ☐

6 ☐

7 ☐

90430/1/CWWS047/ W2



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	100	9	/	+6	/	/	**0**	**N**	28	1	**R**	74°	VOLUMETRIC

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
PASQUALE VESTITA CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001415	1	123A90-FDL-ST-DD90430/ 1	CWWS047	273,100 MM	9,30	2A	FCAW	0.857 MT	R

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 001415	Pag 2 di 2
		Data/date: 24/05/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90430

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

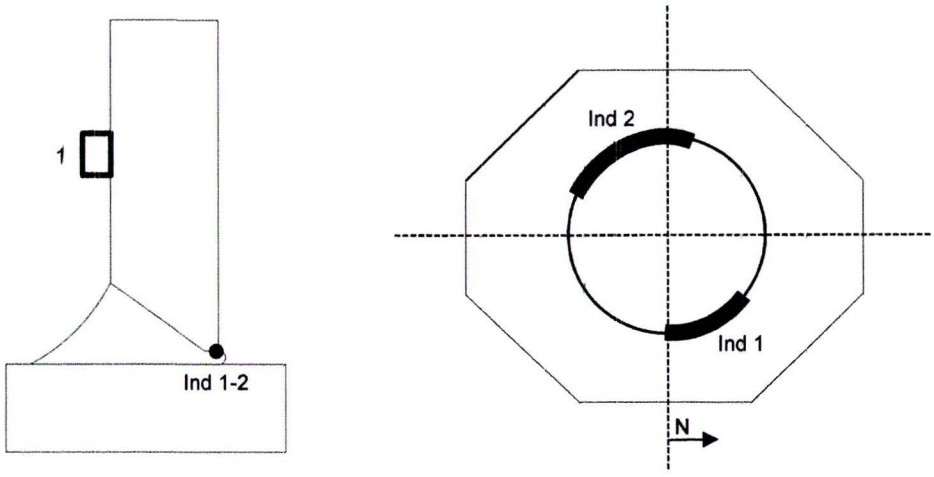
4 ☐

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90430/1/CWWS047/ W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	110	11	/	-4	/	/	0	N	32	1	R	74°	PLANAR
2	+2 dB	/	100	11	/	-4	/	/	380	N	32	1	R	74°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
PASQUALE VESTITA CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001413	2	123A90-FDL-ST-DD90433/ 1	CWWS070	273,100 MM	9,30	2A	FCAW	0.857 Mt	A
001414	2	123A90-FDL-ST-DD90431/ 1	CWWS049	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level II UT NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001412	2	123A90-FDL-ST-DD90432/ 1	CWWS069	273,100 MM	9,30	2A	FCAW	0.857 Mt	R

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Vestita Pasquale CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 001412	Pag 2 di 2
		Data/date: 24/05/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90432

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

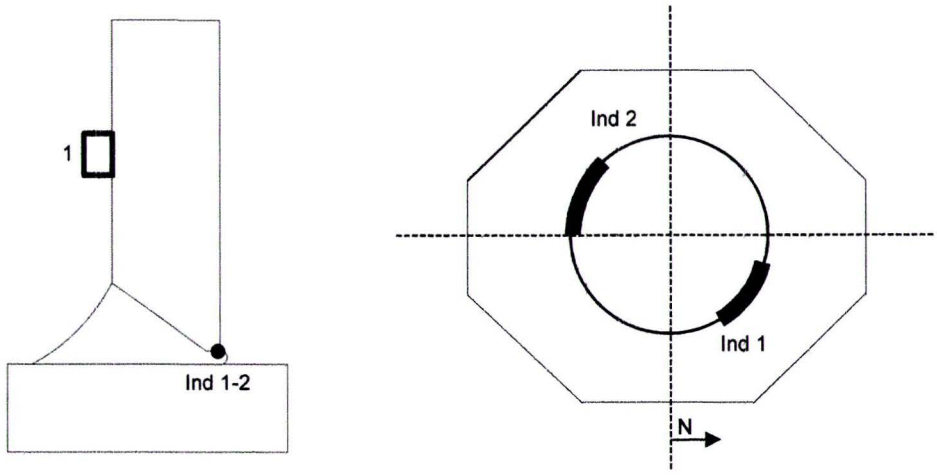
4 ☐

5 ☐

6 ☐

7 ☐

90432/1/CWWS069/ W2



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	120	11	/	+4	/	/	100	N	32	1	R	74°	PLANAR
2	-2 dB	/	110	11	/	+4	/	/	470	N	32	1	R	74°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
PASQUALE VESTITA CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 2

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001411	1	123A90-FDL-ST-DD90432/ 1	CWWS069	273,100 MM	9,30	2A	FCAW	0.857 Mt	R

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Vedilia Basilicata	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 001411	Pag 2 di 2
		Data/date: 24/05/24	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90432**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

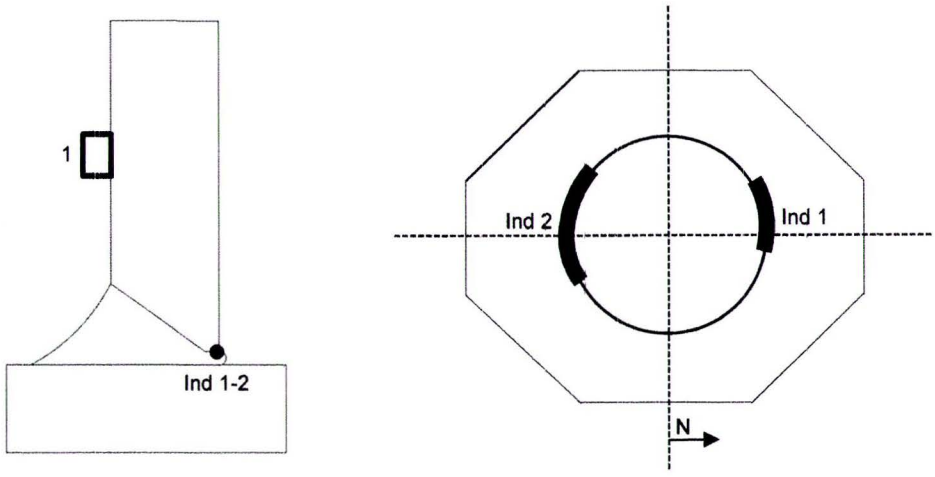
4 ☐

5 ☐

6 ☐

7 ☐

90432/1/CWWS069/ W1



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	-2 dB	/	95	11	/	+4	/	/	300	N	32	1	R	74°	PLANAR
2	-2 dB	/	120	11	/	+4	/	/	620	N	32	1	R	74°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
PASQUALE ROSATA CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan.-base mat.	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001410	2	123A90-FDL-ST-DD90432/ 1	CWWS050	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Krautkramer	06631	4	8x9	60°	63°	11	42.00	+6	+3	SHEAR
Krautkramer	22679	4	8x9	70°	74°	11	44.00	+6	+4	SHEAR
Pan (base-mat)	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG
Pan.-weld ex.	793783	4	3,5x10	0°	0°	/	42.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001409	1	123A90-FDL-ST-DD90432/ 1	CWWS050	273,100 MM	9,30	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL SNC Operator: Vestita Pasquale	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001407	4	123A90-FDL-ST-DD90235/ 1	CWLSB086	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001408	6	123A90-FDL-ST-DD90235/ 1	CWLSB086	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Pisce temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001401	1	123A90-FDL-ST-DD90235/ 1	CWLSB082	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001402	3	123A90-FDL-ST-DD90235/ 1	CWLSB082	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001403	4	123A90-FDL-ST-DD90235/ 1	CWLSB082	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001404	6	123A90-FDL-ST-DD90235/ 1	CWLSB082	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001405	1	123A90-FDL-ST-DD90235/ 1	CWLSB086	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001406	3	123A90-FDL-ST-DD90235/ 1	CWLSB086	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL S.r.l. Operator: Morandi Gianluliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

MOD-QCI-34 Rev. 2020-00

ROSETTI MARINO
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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001399	1	123A90-FDL-ST-DD90315/ 1	CWUTB186	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001400	3	123A90-FDL-ST-DD90315/ 1	CWUTB186	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Place temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001398	3	123A90-FDL-ST-DD90315/ 1	CWUTB185	240,000 MM	9,80	2A	FCAW	0.120 MI	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Date: [illegible]	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-04-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001397	1	123A90-FDL-ST-DD90255/ 1	CWUSB183	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL Snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001395	1	123A90-FDL-ST-DD90252/ 1	CWUSB085	500,000 MM	23,00	2A	FCAW	0.300 MT	A
001396	6	123A90-FDL-ST-DD90252/ 1	CWUSB085	500,000 MM	23,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	61.5°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	72.4°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001393	7	123A90-FDL-ST-DD90353/ 1	CWULT002	740,000 MM	25,00	2A	FCAW	2.320 Mt	A
001394	6	123A90-FDL-ST-DD90353/ 1	CWULT003	740,000 MM	25,00	2A	FCAW	2.320 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Ultrasonic CONTROL NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA Operator Lev. II LT/B UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	N178	4	3,5x10	0°	0°	/	38.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001390	1	123A90-FDL-ST-DD90439/ 1	CWWS041	273,100 MM	9,30	2A	FCAW	0.857 MT	A
001391	1	123A90-FDL-ST-DD90439/ 1	CWWS042	273,100 MM	9,30	2A	FCAW	0.857 MT	A
001392	1	123A90-FDL-ST-DD90438/ 1	CWWS034	273,100 MM	9,30	2A	FCAW	0.857 MT	A

NOTE / Remarks: Place temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	N178	4	3,5x10	0°	0°	/	38.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001384	1	123A90-FDL-ST-DD90403/ 1	CWWN072	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001385	1	123A90-FDL-ST-DD90405/ 1	CWWN073	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001386	2	123A90-FDL-ST-DD90405/ 1	CWWN074	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001387	2	123A90-FDL-ST-DD90424/ 1	CWWS036	273,100 MM	9,30	2A	FCAW	0.857 MT	A
001388	2	123A90-FDL-ST-DD90424/ 1	CWWS037	273,100 MM	9,30	2A	FCAW	0.857 MT	A
001389	2	123A90-FDL-ST-DD90425/ 1	CWWS040	273,100 MM	9,30	2A	FCAW	0.857 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	N178	4	3,5x10	0°	0°	/	38.00	/	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001383	2	123A90-FDL-ST-DD90403/ 1	CWWN052	273,100 MM	11,13	2A	FCAW	0.857 MI	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001380	14	123A90-FDL-ST-DD90076/ 1	CWUPG003	323,900 MM	12,70	2A	FCAW	0.223 Mt	A
001381	15	123A90-FDL-ST-DD90076/ 1	CWUPG003	323,900 MM	12,70	2A	FCAW	0.223 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (weld ex.)	H2300281R	4	3,5x10	0°	0°	/	46.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001374	8	123A90-FDL-ST-DD90077/ 1	CWUPG004	323,900 MM	12,70	2A	FCAW	0.223 MT	A
001375	9	123A90-FDL-ST-DD90077/ 1	CWUPG004	323,900 MM	12,70	2A	FCAW	0.223 MT	A
001376	10	123A90-FDL-ST-DD90077/ 1	CWUPG004	323,900 MM	12,70	2A	FCAW	0.223 MT	A
001377	11	123A90-FDL-ST-DD90077/ 1	CWUPG004	323,900 MM	12,70	2A	FCAW	0.223 MT	A
001378	12	123A90-FDL-ST-DD90076/ 1	CWUPG003	323,900 MM	12,70	2A	FCAW	0.223 MT	A
001379	13	123A90-FDL-ST-DD90076/ 1	CWUPG003	323,900 MM	12,70	2A	FCAW	0.223 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
061373	1	123A90-FDL-ST-DD90252/ 1	CWUSB084	500,000 MM	23,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material
Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	34.80	+6	+2	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001371	1	123A90-FDL-ST-DD90251/ 1	CWUSB077	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001372	1	123A90-FDL-ST-DD90251/ 1	CWUSB005	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001370	3	123A90-FDL-ST-DD90171/ 1	CWUSB063	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001364	4	123A90-FDL-ST-DD90251/ 1	CWUSB118	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001365	6	123A90-FDL-ST-DD90251/ 1	CWUSB118	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001366	1	123A90-FDL-ST-DD90251/ 1	CWUSB119	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001367	3	123A90-FDL-ST-DD90251/ 1	CWUSB119	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001368	4	123A90-FDL-ST-DD90251/ 1	CWUSB119	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001369	6	123A90-FDL-ST-DD90251/ 1	CWUSB119	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comanducci Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6+	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001363	3	123A90-FDL-ST-DD90251/ 1	CWUSB118	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe Index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001362	1	123A90-FDL-ST-DD90251/ 1	CWUSB118	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001361	6	123A90-FDL-ST-DD90251/ 1	CWUSB081	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001357	1	123A90-FDL-ST-DD90251/ 1	CWUSB175	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001358	3	123A90-FDL-ST-DD90251/ 1	CWUSB175	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001359	4	123A90-FDL-ST-DD90251/ 1	CWUSB175	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001360	6	123A90-FDL-ST-DD90251/ 1	CWUSB175	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - 1859712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001356	7	123A90-FDL-ST-DD90251/ 1	CWUSB077	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001355	1	123A90-FDL-ST-DD90251/ 1	CWUSB013	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Ranalli Lorenzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

CONTROL Snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001354	6	123A90-FDL-ST-DD90251/ 1	CWUSB021	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001353	3	123A90-FDL-ST-DD90165/ 1	CWUSB010	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001347	3	123A90-FDL-ST-DD90164/ 1	CWUSB006	160,000 MM	15,00	2A	FCAW	0.160 MT	A
001348	3	123A90-FDL-ST-DD90168/ 1	CWUSB025	300,000 MM	15,00	2A	FCAW	0.300 MT	A
001349	3	123A90-FDL-ST-DD90166/ 1	CWUSB013	160,000 MM	15,00	2A	FCAW	0.160 MT	A
001350	3	123A90-FDL-ST-DD90164/ 1	CWUSB005	300,000 MM	15,00	2A	FCAW	0.300 MT	A
001351	3	123A90-FDL-ST-DD90165/ 1	CWUSB009	160,000 MM	15,00	2A	FCAW	0.160 MT	A
001352	3	123A90-FDL-ST-DD90166/ 1	CWUSB011	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Ramazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00008 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001345	1	123A90-FDL-ST-DD90251/ 1	CWUSB018	330,000 MM	11,50	2A	FCAW	0.011 Mt	A
001346	1	123A90-FDL-ST-DD90251/ 1	CWUSB010	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rangazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

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COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001344	6	123A90-FDL-ST-DD90251/ 1	CWUSB006	160,000 MM	15,00	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Francavilla Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001343	1	123A90-FDL-ST-DD90251/ 1	CWUSB006	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001339	1	123A90-FDL-ST-DD90251/ 1	CWUSB031	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001340	3	123A90-FDL-ST-DD90251/ 1	CWUSB031	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001341	4	123A90-FDL-ST-DD90251/ 1	CWUSB031	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001342	6	123A90-FDL-ST-DD90251/ 1	CWUSB031	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+3	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001338	6	123A90-FDL-ST-DD90251/ 1	CWUSB058	330,000 MM	11,50	2A	FCAW	0.160 MI	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001335	1	123A90-FDL-ST-DD90251/ 1	CWUSB058	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001336	3	123A90-FDL-ST-DD90251/ 1	CWUSB058	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001337	4	123A90-FDL-ST-DD90251/ 1	CWUSB058	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
061334	6	123A90-FDL-ST-DD90251/ 1	CWUSB009	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operatore Ranauzzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001333	1	123A90-FDL-ST-DD90251/ 1	CWUSB009	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001332	4	123A90-FDL-ST-DD90251/ 1	CWUSB005	300,000 MM	15,00	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001331	3	123A90-FDL-ST-DD90251/ 1	CWUSB005	642,000 MM	15,00	2A	FCAW	0.645 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comanducci Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001330	2	123A90-FDL-ST-DD90251/ 1	CWUSB005	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Francesco Silvestre	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

CONTROL snc

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-05-2024

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692874268	4	8x9	60°	58°	11	34.80	+6	+2	SHEAR
GE	5692942285	4	8x9	70°	69°	11	37.00	+6	+3	SHEAR
IMG (base mat.)	I961	4	3,5x10	0°	0°	/	54.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001329	3	123A90-FDL-ST-DD90251/ 1	CWUSB004	642,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 7°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Ramazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II UNDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	ACQUA + METILCELLULOSA	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	RIFLESSIONE	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	61.5°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	72.4°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001328	7	123A90-FDL-ST-DD90353/ 1	CWULT001	740,000 MM	25,00	2A	FCAW	2.320 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operatore: Tomasi Nico II Lev MT-PT-VT-UT/TOFD PA III Lev UT-ULT/B UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MOD-QCI-34 Rev. 2020-00

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001327	4	123A90-FDL-ST-DD90251/ 1	CWUSB013	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA Operator: Tomasi Nico III Lev. UT-ET-PT UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001326	4	123A90-FDL-ST-DD90251/ 1	CWUSB025	300,000 MM	15,00	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: QCI S.r.l. Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

NICO TOMASI
II Lev MT-PT-VT-UT-TOFD PA
III Lev UT-LTYB
UNI EN ISO 9712

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001325	3	123A90-FDL-ST-DD90251/ 1	CWUSB025	642,000 MM	15,00	2A	FCAW	0.645 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Comandini Massimo Livello: 3 NDT	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

NICOLA TOMASI
II Lev MT-PT-VT-UT/TOFD PA
III Lev: UT-MT-PT
UNI EN ISO 9712

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001324	1	123A90-FDL-ST-D0090251/ 1	CWUSB025	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA III Lev UT-LT/B Operator: Tomasi Nico UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001323	1	123A90-FDL-ST-DD90251/ 1	CWUSB081	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Operator NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA III Lev. UT-LTVR UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001320	1	123A90-FDL-ST-DD90251/ 1	CWUSB021	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001321	3	123A90-FDL-ST-DD90251/ 1	CWUSB021	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001322	4	123A90-FDL-ST-DD90251/ 1	CWUSB021	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company / Contractor: NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA III Lev UT-ST/R UNI EN ISO 9712 Operator: Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001319	3	123A90-FDL-ST-DD90251/ 1	CWUSB013	312,000 MM	10,00	2A	FCAW	0.630 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO Operator: Tomasi Nico II Lev MT-PT-VT-UT/TOFD PA III Lev. UT-LTVB UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001318	1	123A90-FDL-ST-DD90251/ 1	CWUSB037	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operatore / Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

NICO TOMASI
II Lev MT-PT-VT-UT/TOFD PA
UNI EN ISO 9712

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001317	2	123A90-FDL-ST-DD90251/ 1	CWUSB025	340,000 MM	9,50	2A	FCAW	0.314 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Name and Stamp NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA II Lev. UT-TT/TB Nico Tomasi UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001313	1	123A90-FDL-ST-DD90251/ 1	CWUSB176	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001314	3	123A90-FDL-ST-DD90251/ 1	CWUSB176	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001315	4	123A90-FDL-ST-DD90251/ 1	CWUSB176	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001316	6	123A90-FDL-ST-DD90251/ 1	CWUSB176	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICO TOMASI II Lev MT-PT-VT-UT-TOFD PA III Lev. UT-LT-B UNI EN ISO 9712 Nicolas Tomasi Nico	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001312	1	123A90-FDL-ST-DD90251/ 1	CWUSB065	330,000 MM	11,50	2A	FCAW	0.011 MI	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: NICO CONTROL NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA III Lev. UT-ET/B Operator: Tomasi Nico UNI EN ISO 9712		ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	N178	4	3,5x10	0°	0°	/	38.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001310	1	123A90-FDL-ST-DD90402/ 1	CWWN051	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001311	2	123A90-FDL-ST-DD90402/ 1	CWWN051	273,100 MM	11,13	2A	FCAW	0.857 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	N178	4	3,5x10	0°	0°	/	38.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001304	1	123A90-FDL-ST-DD90397/ 1	CWWN037	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001305	1	123A90-FDL-ST-DD90401/ 1	CWWN049	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001306	1	123A90-FDL-ST-DD90410/ 1	CWWN040	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001307	1	123A90-FDL-ST-DD90411/ 1	CWWN045	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001308	2	123A90-FDL-ST-DD90401/ 1	CWWN049	273,100 MM	11,13	2A	FCAW	0.857 MT	A
001309	1	123A90-FDL-ST-DD90402/ 1	CWWN050	273,100 MM	11,13	2A	FCAW	0.857 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	N178	4	3,5x10	0°	0°	/	38.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001300	1	123A90-FDL-ST-DD90397/ 1	CWWN039	273,100 MM	9,30	2A	FCAW	0.857 Mt	A
001301	2	123A90-FDL-ST-DD90398/ 1	CWWN042	273,100 MM	11,13	2A	FCAW	0.857 Mt	A
001302	2	123A90-FDL-ST-DD90401/ 1	CWWN048	273,100 MM	11,13	2A	FCAW	0.857 Mt	A
001303	1	123A90-FDL-ST-DD90410/ 1	CWWN041	273,100 MM	11,13	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-L	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	61.5°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	72.4°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001299	6	123A90-FDL-ST-DD90353/ 1	CWLT001	740,000 MM	25,00	2A	FCAW	2.320 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Operator NICO TOMASI II Lev MT-PT-VT-UT-TOFD PA III Lev. UT-TIB Tomasi Nico UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (weld ex.)	57483	4	3,5x10	0°	0°	/	36.00	+6	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001298	6	123A90-FDL-ST-DD90353/ 1	CWILT002	740,000 MM	25,00	2A	FCAW	2.320 MI	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICO TOMASI Company: CONTROL II Lev MT-PT-VT-UT/TOFD PA III Lev. UT-LTRB Operatore Tecnico UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001295	4	123A90-FDL-ST-DD90181/ 1	CWLPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001296	5	123A90-FDL-ST-DD90181/ 1	CWLPG047	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001297	6	123A90-FDL-ST-DD90181/ 1	CWLPG047	950,000 MM	20,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company / Comasi Nico NICO TOMASI II Lev MT-PT-VT-UT-TOFD PA III Lev UT-TTB UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001294	4	123A90-FDL-ST-DD90255/ 1	CWUSB191	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001288	1	123A90-FDL-ST-DD90315/ 1	CWUTB185	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001289	1	123A90-FDL-ST-DD90255/ 1	CWUSB190	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001290	3	123A90-FDL-ST-DD90255/ 1	CWUSB190	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001291	4	123A90-FDL-ST-DD90255/ 1	CWUSB190	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001292	1	123A90-FDL-ST-DD90255/ 1	CWUSB191	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
001293	3	123A90-FDL-ST-DD90255/ 1	CWUSB191	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001282	1	123A90-FDL-ST-DD90255/ 1	CWUSB188	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001283	5	123A90-FDL-ST-DD90255/ 1	CWUSB188	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001284	7	123A90-FDL-ST-DD90255/ 1	CWUSB188	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001285	1	123A90-FDL-ST-DD90255/ 1	CWUSB189	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001286	5	123A90-FDL-ST-DD90255/ 1	CWUSB189	340,000 MM	16,50	2A	FCAW	0.300 MT	A
001287	7	123A90-FDL-ST-DD90255/ 1	CWUSB189	340,000 MM	16,50	2A	FCAW	0.300 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001281	1	123A90-FDL-ST-DD90251/ 1	CWUSB019	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001279	1	123A90-FDL-ST-DD90167/ 1	CWUSB018	72,500 MM	12,00	2A	FCAW	0.072 Mt	A
001280	2	123A90-FDL-ST-DD90167/ 1	CWUSB018	72,500 MM	12,00	2A	FCAW	0.072 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001277	4	123A90-FDL-ST-DD90251/ 1	CWUSB019	330,000 MM	11,50	2A	FCAW	0.160 MT	A
001278	6	123A90-FDL-ST-DD90251/ 1	CWUSB019	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001271	4	123A90-FDL-ST-DD90315/ 1	CWUTB189	240,000 MM	9,80	2A	FCAW	0.120 MT	A
001272	6	123A90-FDL-ST-DD90315/ 1	CWUTB189	240,000 MM	9,80	2A	FCAW	0.120 MT	A
001273	1	123A90-FDL-ST-DD90315/ 1	CWUTB190	240,000 MM	9,80	2A	FCAW	0.120 MT	A
001274	3	123A90-FDL-ST-DD90315/ 1	CWUTB190	240,000 MM	9,80	2A	FCAW	0.120 MT	A
001275	5	123A90-FDL-ST-DD90315/ 1	CWUTB190	240,000 MM	9,80	2A	FCAW	0.120 MT	A
001276	3	123A90-FDL-ST-DD90251/ 1	CWUSB019	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001270	1	123A90-FDL-ST-DD90315/ 1	CWUTB189	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001267	3	123A90-FDL-ST-DD90315/ 1	CWUTB187	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001268	1	123A90-FDL-ST-DD90315/ 1	CWUTB188	240,000 MM	9,80	2A	FCAW	0.120 Mt	A
001269	3	123A90-FDL-ST-DD90315/ 1	CWUTB188	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001261	6	123A90-FDL-ST-DD90251/ 1	CWUSB037	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001262	1	123A90-FDL-ST-DD90251/ 1	CWUSB056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001263	3	123A90-FDL-ST-DD90251/ 1	CWUSB056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001264	4	123A90-FDL-ST-DD90251/ 1	CWUSB056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001265	6	123A90-FDL-ST-DD90251/ 1	CWUSB056	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001266	1	123A90-FDL-ST-DD90315/ 1	CWUTB187	240,000 MM	9,80	2A	FCAW	0.120 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001255	1	123A90-FDL-ST-DD90251/ 1	CWUSB052	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001256	3	123A90-FDL-ST-DD90251/ 1	CWUSB052	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001257	4	123A90-FDL-ST-DD90251/ 1	CWUSB052	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001258	6	123A90-FDL-ST-DD90251/ 1	CWUSB052	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001259	3	123A90-FDL-ST-DD90251/ 1	CWUSB037	330,000 MM	11,50	2A	FCAW	0.160 Mt	A
001260	4	123A90-FDL-ST-DD90251/ 1	CWUSB037	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Img	1753	4	8x9	45°	45°	10	42.90	+6	+2	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001254	4	123A90-FDL-ST-DD90251/ 1	CWUSB011	160,000 MM	15,00	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001253	3	123A90-FDL-ST-DD90251/ 1	CWUSB011	312,000 MM	10,00	2A	FCAW	0.630 MT	A

NOTE / Remarks: Place temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001252	1	123A90-FDL-ST-DD90251/ 1	CWUSB011	330,000 MM	11,50	2A	FCAW	0.160 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 13-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (base mat)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001251	4	123A90-FDL-ST-DD90251/ 1	CWUSB027	330,000 MM	11,50	2A	FCAW	0.160 MT	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN 1289712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001248	4	123A90-FDL-ST-DD90184/ 1	CWLPG049	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001249	5	123A90-FDL-ST-DD90184/ 1	CWLPG049	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001250	6	123A90-FDL-ST-DD90184/ 1	CWLPG049	950,000 MM	20,00	2A	FCAW	0.950 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Certificate NICO TOMASI II Lev MT-PT-VT-UT TOFD PA III Lev UT Manual Pico UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
KK (base mat.)	57483	4	3,5x10	0°	0°	/	36.00	/	/	LONG
Olympus	115810	4	8x9	60°	57°	11	35.00	+6	+2	SHEAR
Olympus	117565	4	8x9	70°	68°	11	36.00	+6	+4	SHEAR
Olympus	118612	4	8x9	45°	45°	10	34.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001242	1	123A90-FDL-ST-DD90183/ 1	CWLPG008	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001243	2	123A90-FDL-ST-DD90183/ 1	CWLPG008	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001244	1	123A90-FDL-ST-DD90182/ 1	CWLPG010	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001245	2	123A90-FDL-ST-DD90182/ 1	CWLPG010	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001246	6	123A90-FDL-ST-DD90182/ 1	CWLPG012	400,000 MM	25,00	2A	FCAW	0.400 Mt	A
001247	7	123A90-FDL-ST-DD90182/ 1	CWLPG012	400,000 MM	25,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Owner NICO TOMASI II Lev MT-PT-VT-UT/TOFD PA III Lev UT-UT/IR UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-05-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160969009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (base mat.)	N178	4	3,5x10	0°	0°	/	36.00	/	/	LONG
IMG (weld ex.)	N178	4	3,5x10	0°	0°	/	38.00	+6	/	LONG
IMG ULTRASUONI	M694	4	8x9	60°	59°	12	36.00	+6	+3	SHEAR
IMG ULTRASUONI	N252	4	8x9	70°	67.7°	13	40.00	+6	+3	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
001241	1	123A90-FDL-ST-DD90397/ 1	CWWN036	273,100 MM	11,13	2A	FCAW	0.857 Mt	A

NOTE / Remarks: Piece temperature: from 9°C.
The effective angle is related to the deviation of propagation direction of sound path due to TMCP material

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: De Cesare Martino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-07-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
KK (Mat. Base)	82945	4	3,5x10	0°	0°	/	38.90	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002782	6	123A90-FDL-ST-DD90666/ 1	CWTPLP006	187,000 MM	25,00	2A	FCAW	0.190 Mt	A
002783	3	123A90-FDL-ST-DD90666/ 1	CWTPLP005	187,000 MM	25,00	2A	FCAW	0.250 Mt	A
002784	6	123A90-FDL-ST-DD90666/ 1	CWTPLP005	187,000 MM	25,00	2A	FCAW	0.190 Mt	A

NOTE / Remarks: Piece temperature: from 26°C.
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-07-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
KK (Mat. Base)	82945	4	3,5x10	0°	0°	/	38.90	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002776	6	123A90-FDL-ST-DD90666/ 1	CWTPLP007	187,000 MM	25,00	2A	FCAW	0.190 Mt	A
002777	2	123A90-FDL-ST-DD90666/ 1	CWTPLP010	187,000 MM	25,00	2A	FCAW	0.250 Mt	A
002778	5	123A90-FDL-ST-DD90666/ 1	CWTPLP010	187,000 MM	25,00	2A	FCAW	0.190 Mt	A
002779	2	123A90-FDL-ST-DD90666/ 1	CWTPLP009	187,000 MM	25,00	2A	FCAW	0.250 Mt	A
002780	5	123A90-FDL-ST-DD90666/ 1	CWTPLP009	187,000 MM	25,00	2A	FCAW	0.190 Mt	A
002781	3	123A90-FDL-ST-DD90666/ 1	CWTPLP006	187,000 MM	25,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 26°C.
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-RT-UT/TOFD Level II NDT EN - ISO9712 Operator: Rosetti Mirko	ROSETTI MARINO SPA Comanditti Massimo			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 09-07-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
KK (Mat. Base)	82945	4	3,5x10	0°	0°	/	38.90	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002770	2	123A90-FDL-ST-DD90666/ 1	CWTPLP012	187,000 MM	25,00	2A	FCAW	0.250 Mt	A
002771	2	123A90-FDL-ST-DD90666/ 1	CWTPLP011	187,000 MM	25,00	2A	FCAW	0.250 Mt	A
002772	5	123A90-FDL-ST-DD90666/ 1	CWTPLP011	187,000 MM	25,00	2A	FCAW	0.190 Mt	A
002773	3	123A90-FDL-ST-DD90666/ 1	CWTPLP008	187,000 MM	25,00	2A	FCAW	0.250 Mt	A
002774	6	123A90-FDL-ST-DD90666/ 1	CWTPLP008	187,000 MM	25,00	2A	FCAW	0.190 Mt	A
002775	3	123A90-FDL-ST-DD90666/ 1	CWTPLP007	187,000 MM	25,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: Piece temperature: from 26°C.
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-07-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
KK (Mat. Base)	82945	4	3,5x10	0°	0°	/	38.90	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002769	5	123A90-FDL-ST-DD90666/ 1	CWTPLP012	187,000 MM	25,00	2A	FCAW	0.190 Mt	A

NOTE / Remarks: Piece temperature: from 26°C.
MUT examination has been not performed as IDL-QCI-UT-223 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Romandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-06-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160962411	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 119	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG	L779	2	14x14	60°	58°	14	41.00	+6	+2	SHEAR
IMG	L789	2	14x14	70°	69°	11	38.00	+6	+5	SHEAR
IMG	M120	2	14x14	45°	44°	12	41.00	+6	+2	SHEAR
IMG (mat. base)	M146	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002768	4	123A90-FDL-ST-DD90666/ 1	CWTPLP004	347,000 MM	40,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: Piece temperature: from 16°C.
MUT examination has been not performed as IDL-QCI-UT-224 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Zappalà Francesco	PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUTOFD			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 30-06-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160962411	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 119	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG	L779	2	14x14	60°	58°	14	41.00	+6	+2	SHEAR
IMG	L789	2	14x14	70°	69°	11	38.00	+6	+5	SHEAR
IMG	M120	2	14x14	45°	44°	12	41.00	+6	+2	SHEAR
IMG (mat. base)	M146	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002762	4	123A90-FDL-ST-DD90666/ 1	CWTPLP001	347,000 MM	40,00	2A	FCAW	0.500 Mt	A
002763	1	123A90-FDL-ST-DD90666/ 1	CWTPLP002	347,000 MM	40,00	2A	FCAW	0.328 Mt	A
002764	4	123A90-FDL-ST-DD90666/ 1	CWTPLP002	347,000 MM	40,00	2A	FCAW	0.500 Mt	A
002765	1	123A90-FDL-ST-DD90666/ 1	CWTPLP003	347,000 MM	40,00	2A	FCAW	0.328 Mt	A
002766	4	123A90-FDL-ST-DD90666/ 1	CWTPLP003	347,000 MM	40,00	2A	FCAW	0.500 Mt	A
002767	1	123A90-FDL-ST-DD90666/ 1	CWTPLP004	347,000 MM	40,00	2A	FCAW	0.328 Mt	A

NOTE / Remarks: Piece temperature: from 16°C.
MUT examination has been not performed as IDL-QCI-UT-224 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Zappalà Francesco	PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT-TOFD			

ROSETTI MARINO Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 30-06-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160962411	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 119	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG	L779	2	14x14	60°	58°	14	41.00	+6	+2	SHEAR
IMG	L789	2	14x14	70°	69°	11	38.00	+6	+5	SHEAR
IMG	M120	2	14x14	45°	44°	12	41.00	+6	+2	SHEAR
IMG (mat. base)	M146	4	3,5x10	0°	0°	/	46.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002761	1	123A90-FDL-ST-DD90666/ 1	CWTPLP001	347,000 MM	40,00	2A	FCAW	0.328 Mt	A

NOTE / Remarks: Piece temperature: from 16°C.
MUT examination has been not performed as IDL-QCI-UT-224 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Zappalà Francesco	PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT TOFD			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-05-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
KK (Mat. Base)	82945	4	3,5x10	0°	0°	/	38.90	/	/	LONG
KK (Weld ex)	82945	4	3,5x10	0°	0°	/	40.90	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002760	3	123A90-FDL-ST-DD 36 / 1	CWBOLL02	219,100 MM	23,00	2A	FCAW	0.688 Mt	A

NOTE / Remarks: Piece temperature: from 14°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROS Operator: Rosetti Mirko	L'ISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT TOFD			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 31-05-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
KK (Mat. Base)	82945	4	3,5x10	0°	0°	/	38.90	/	/	LONG
KK (Weld ex)	82945	4	3,5x10	0°	0°	/	40.90	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002759	1	123A90-FDL-ST-DD 36 / 1	CWBOLL01	219,100 MM	23,00	2A	FCAW	0.688 Mt	A

NOTE / Remarks: Piece temperature: from 14°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Stamp: Rosetti Mirko	ISTOCCHI ANDREA LEVEL III ISO 9712 MT-PT-AUT-RT-UT PAUT/TOFD			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-05-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
KK (Mat Base)	82945	4	3,5x10	0°	0°	/	38.90	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002758	161	123A90-FDL-ST-DD90762/ 1	CWCF001	323,900 MM	12,00	1A	GTAW+FCAW	0.509 Mt	A

NOTE / Remarks: Piece temperature: from 14°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT-TOFD			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 10-05-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160962411	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat base)	M146	4	3,5x10	0°	0°	/	46.00	/	/	LONG
PHOENIX	18351	4	8x9	60°	58°	14	43.00	+6	+2	SHEAR
SIUI	02319231R	4	8x9	70°	69°	11	41.00	+6	+5	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002753	1	123A90-FDL-ST-DD90781/ 1	CWCF004	355,600 MM	27,80	2A	FCAW	0.604 Mt	A
002754	1	123A90-FDL-ST-DD90781/ 1	CWCF003	355,600 MM	27,80	2A	FCAW	0.604 Mt	A
002755	1	123A90-FDL-ST-DD90781/ 1	CWCF008	355,600 MM	27,80	2A	FCAW	0.604 Mt	A
002756	1	123A90-FDL-ST-DD90781/ 1	CWCF006	355,600 MM	27,80	2A	FCAW	0.604 Mt	A
002757	1	123A90-FDL-ST-DD90781/ 1	CWCF007	355,600 MM	27,80	2A	FCAW	0.604 Mt	A

NOTE / Remarks: Piece temperature: from 14°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Zappalà Francesco	PISTOCCHI ANDREA LEVEL II N° 9712 UT - RT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-05-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160962411	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (MAT BASE)	M146	4	3,5x10	0°	0°	/	46.00	/	/	LONG
PHOENIX	18351	4	8x9	60°	58°	14	43.00	+6	+2	SHEAR
SIUI	02319231R	4	8x9	70°	69°	11	41.00	+6	+5	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002752	1	123A90-FDL-ST-DD90781/ 1	CWCF005	355,600 MM	27,80	2A	FCAW	0.604 Mt	A

NOTE / Remarks: Piece temperature: from 14°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Zappalà Francesco	PISTOCCHI ANDREA LEVEL III 16056712 UT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 23-04-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded	[X] SPAZZOLATO As brushed	[ ] LAVORATO A MACCHINA As Machined	[ ] CLADDATO As cladded	[ ] MOLATO As Grounded
[ ] LAMINATO As rolled	[ ] GREZZO As forged	[ ] SABBIATO As Sand Blasted	[ ] VERNICIATO As painted	[ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG
IMG (Weld ex.)	G669	4	3,5x10	0°	0°	/	37.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002751	9	123A90-FDL-ST-DD90477/ 1	CWTP001	800,000 MM	40,00	2A	FCAW	2.512 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator Rosetti Marine	PISTOCCHI ANDREA LEVEL III - ISO 9712 MT - UT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-04-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded	[X] SPAZZOLATO As brushed	[ ] LAVORATO A MACCHINA As Machined	[ ] CLADDATO As cladded	[ ] MOLATO As Grounded
[ ] LAMINATO As rolled	[ ] GREZZO As forged	[ ] SABBIATO As Sand Blasted	[ ] VERNICIATO As painted	[ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG
IMG (Weld ex.)	G669	4	3,5x10	0°	0°	/	37.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002750	8	123A90-FDL-ST-DD90483/ 1	CWTP003	800,000 MM	40,00	2A	FCAW	2.592 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD	PISTOCCHI ANDREA LIVELLO III - ISO 9712 UT - RT - MT - PT - VT			

Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002749	8	123A90-FDL-ST-DD90480/ 1	CWTP002	800,000 MM	40,00	2A	FCAW	2.592 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	PITOCCHI ANDREA LEVEL II ISO 9712 UT - PT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-04-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 3-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002748	9	123A90-FDL-ST-DD90486/ 1	CWTP004	800,000 MM	40,00	2A	FCAW	2.512 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	UCCHI ANDREA LEVEL II ISO 9712			

Operator: MRosetti/MRO

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002746	12	123A90-FDL-ST-DD90760/ 1	CWTPSG006	77,000 MM	30,00	2A	FCAW	0.370 MT	A
002747	13	123A90-FDL-ST-DD90760/ 1	CWTPSG006	77,000 MM	30,00	2A	FCAW	0.370 MT	A

NOTE / Remarks: -Piece temperature: from 10°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator - Rosetti Mirko	PISTOCCHI ANDREA LEVEL III - ISO 9712 UT - RT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002744	10	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A
002745	11	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator / Rosetti Mirko	Quality Control			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

TOCCHI ANDREA
LEVEL III - ISO 9712
RT - MT - PT - VT

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002738	4	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A
002739	5	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A
002740	6	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A
002741	7	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A
002742	8	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A
002743	9	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: Controll Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ISTOCCHI ANDREA LEVEL III - ISO 9712 UT - RT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002732	10	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002733	11	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002734	12	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002735	13	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002736	2	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002737	3	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	0.370 MT	A

NOTE / Remarks: -Piece temperature: from 10°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 LSNT-TC1A VT-MT-PT-UT-PAUT/TOFD	PISTOCCHI ANDREA LEVEL III - ISO 9712 UT - RT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002731	9	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ISTOCCHI ANDREA LEVEL III - ISO 9712 UT - RT - MT - PT - VT			

Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002730	8	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	PISTOCCHI ANDREA LIVELLO III - ISO 9712 UT - RT - MT - PT - VT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 20-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420 EN 10025 S355	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002724	2	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002725	3	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002726	4	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002727	5	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002728	6	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A
002729	7	123A90-FDL-ST-DD90759/ 1	CWTPSG002	660,000 MM	30,00	2A	FCAW	0.370 MT	A

NOTE / Remarks: -Piece temperature: from 10°C.
MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	PISTOCCHI ANDREA LEVEL III - ISO 9712 UT - RT - MT - PT - VT			

Printed: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG
IMG (Weld ex.)	G669	4	3,5x10	0°	0°	/	37.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002719	1	123A90-FDL-ST-DD90760/ 1	CWTPSG014	77,000 MM	25,00	2A	FCAW	0.003 Mt	A
002720	1	123A90-FDL-ST-DD90760/ 1	CWTPSG015	77,000 MM	25,00	2A	FCAW	0.420 Mt	A
002721	1	123A90-FDL-ST-DD90760/ 1	CWTPSG016	77,000 MM	25,00	2A	FCAW	0.420 Mt	A
002722	1	123A90-FDL-ST-DD90760/ 1	CWTPSG017	77,000 MM	25,00	2A	FCAW	0.420 Mt	A
002723	1	123A90-FDL-ST-DD90760/ 1	CWTPSG018	77,000 MM	25,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks -Piece temperature: from 10°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002718	1	123A90-FDL-ST-DD90760/ 1	CWTPSG006	77,000 MM	25,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO SPA Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG
IMG (Weld ex.)	G669	4	3,5x10	0°	0°	/	37.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002716	1	123A90-FDL-ST-DD90759/ 1	CWTPSG012	77,000 MM	25,00	2A	FCAW	0.420 Mt	A
002717	1	123A90-FDL-ST-DD90759/ 1	CWTPSG013	77,000 MM	25,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG
IMG (Weld ex.)	G669	4	3,5x10	0°	0°	/	37.00	+6	/	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002715	1	123A90-FDL-ST-DD90759/ 1	CWTPSG011	77,000 MM	25,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG
IMG (Weld ex.)	G669	4	3,5x10	0°	0°	/	37.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002713	1	123A90-FDL-ST-DD90759/ 1	CWTPSG009	77,000 MM	25,00	2A	FCAW	0.420 MI	A
002714	1	123A90-FDL-ST-DD90759/ 1	CWTPSG010	77,000 MM	25,00	2A	FCAW	0.420 MI	A

NOTE / Remarks: -Piece temperature: from 10°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-03-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	68°	12	41.70	+6	+3	SHEAR
IMG (mat. base)	G669	4	3,5x10	0°	0°	/	35.00	/	/	LONG
IMG (Weld ex.)	G669	4	3,5x10	0°	0°	/	37.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002712	1	123A90-FDL-ST-DD90759/ 1	CWTPSG005	77,000 MM	25,00	2A	FCAW	0.420 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL TECH Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level II NDT			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD EN - ISO9712

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002711	6	123A90-FDL-ST-DD90588/ 1	CWTPW086	340,000 MM	16,50	2A	FCAW	0.220 Mt	A

NOTE / Remarks: -Piece temperature: from 25°C. Repair length at least 50mm on each sice of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Signature: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002710	5	123A90-FDL-ST-DD90588/ 1	CWTPW086	340,000 MM	16,50	2A	FCAW	0.220 Mt	A

NOTE / Remarks: -Piece temperature: from 25°C. Repair length at least 50mm on each sice of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002709	8	123A90-FDL-ST-DD90588/ 1	CWTPW085	340,000 MM	16,50	2A	FCAW	0.216 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. Repair length at least 50mm on each sice of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC 1A VT-MT-PT-UT-PAUT/TOFD Firma: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 05-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	68°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002708	4	123A90-FDL-ST-DD90588/ 1	CWTPW085	340,000 MM	16,50	2A	FCAW	0.220 Mt	A

NOTE / Remarks: -Piece temperature: from 25°C. Repair length at least 50mm on each sice of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD Contractor: Rosetti Marino	ROSETTI MARINO SPA Giamandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 127-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+3	SHEAR
GE	58416-3150	2	14x14	70°	67.5°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-weld ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002707	5	123A90-FDL-ST-DD90507/ 1	CWTP003	805,000 MM	65,00	2A	FCAW	1.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company / Società: ROSETTI MARINO SPA Operator / Rosetti Mirko	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT-TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002706	67	123A90-FDL-ST-DD90655/ 1	CWTPWT001	2.220,000 MM	25,00	2A	FCAW	3.862 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002705	67	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	12,00	2A	FCAW	0.958 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: ROSETTI MARINO SPA	Company: ROSETTI MARINO SPA			
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002702	49	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.150 Mt	A
002703	50	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 Mt	A
002704	51	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002696	43	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A
002697	44	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A
002698	45	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 MT	A
002699	46	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 MT	A
002700	47	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A
002701	48	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.185 MT	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002690	36	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.150 MT	A
002691	37	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 MT	A
002692	38	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 MT	A
002693	40	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A
002694	41	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A
002695	42	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002684	30	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 MT	A
002685	31	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 MT	A
002686	32	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A
002687	33	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 MT	A
002688	34	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 MT	A
002689	35	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.185 MT	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROP Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002678	23	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.150 Mt	A
002679	24	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 Mt	A
002680	25	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 Mt	A
002681	27	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A
002682	28	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002683	29	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	+6	41.70	+3	S	
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002677	22	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.185 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: ROSETTI Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-RT-AUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002675	20	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002676	21	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002669	14	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002670	15	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A
002671	16	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002672	17	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002673	18	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A
002674	19	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Company: CONTROL Operator: MRosetti	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002663	7	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002664	8	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A
002665	9	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.185 Mt	A
002666	10	123A90-FDL-ST-DD90653/ 1	CWTPWT001	185,000 MM	15,00	2A	FCAW	0.150 Mt	A
002667	11	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 Mt	A
002668	12	123A90-FDL-ST-DD90653/ 1	CWTPWT001	150,000 MM	15,00	2A	FCAW	0.150 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Operator: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002657	1	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002658	2	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A
002659	3	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002660	4	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.239 Mt	A
002661	5	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A
002662	6	123A90-FDL-ST-DD90653/ 1	CWTPWT001	247,000 MM	10,00	2A	FCAW	0.250 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 19-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
IMG (Weld ex.)	I961	4	3,5x10	0°	0°	/	40.50	+6	/	LONG
Olympus	1250643	4	8x9	70°	69°	12	41.00	+6	+2	SHEAR
Olympus	1297718	4	8x9	60°	59°	12	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002655	5	123A90-FDL-ST-DD90774/ 1	CWCF003	120,000 MM	10,00	2A	FCAW	0.459 Mt	A
002656	6	123A90-FDL-ST-DD90774/ 1	CWCF003	120,000 MM	10,00	2A	FCAW	0.462 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002654	7	123A90-FDL-ST-DD90495/ 1	CWTP009	4.148,300 MM	30,00	2A	FCAW	7.633 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	Company: CONTROL ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002653	6	123A90-FDL-ST-DD90495/ 1	CWTP009	4.148,300 MM	30,00	2A	FCAW	4.860 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: QCONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002652	4	123A90-FDL-ST-DD90781/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.938 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 18-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002650	2	123A90-FDL-ST-DD90781/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.938 Mt	A
002651	3	123A90-FDL-ST-DD90781/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.938 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 18-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-weld ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002649	1	123A90-FDL-ST-DD90781/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.938 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 127-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.5°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002648	4	123A90-FDL-ST-DD90508/ 1	CWTP004	600,000 MM	75,00	2A	FCAW	2.343 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: QUALITEC MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002647	1	123A90-FDL-ST-DD90595/ 1	CWTPW030	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 NDT SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002645	1	123A90-FDL-ST-DD90595/ 1	CWTPW015	219,100 MM	10,30	2A	FCAW	0.687 Mt	A
002646	2	123A90-FDL-ST-DD90595/ 1	CWTPW025	219,100 MM	10,30	2A	FCAW	0.687 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

Company: CONTROL
Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002644	8	123A90-FDL-ST-DD90588/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.090 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	Company CONTROL Date/Data: 14-02-2025			
	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002643	1	123A90-FDL-ST-DD90779/ 1	CWCF008	355,600 MM	20,00	2A	FCAW	0.558 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+3	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002642	1	123A90-FDL-ST-DD90778/ 1	CWCF007	355,600 MM	20,00	2A	FCAW	0.558 Mt	A

NOTE / Remarks -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-RT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002639	3	123A90-FDL-ST-DD90775/ 1	CWCF004	355,600 MM	20,00	2A	FCAW	0.514 Mt	A
002640	1	123A90-FDL-ST-DD90776/ 1	CWCF005	355,600 MM	20,00	2A	FCAW	0.558 Mt	A
002641	1	123A90-FDL-ST-DD90777/ 1	CWCF006	355,600 MM	20,00	2A	FCAW	0.558 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: QCONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 14-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002638	3	123A90-FDL-ST-DD90774/ 1	CWCF003	355,600 MM	20,00	2A	FCAW	0.558 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 SNT-TC1A VT-MT-PT-UT-RT-TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002636	6	123A90-FDL-ST-DD90588/ 1	CWTPW037	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002637	8	123A90-FDL-ST-DD90588/ 1	CWTPW037	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002630	1	123A90-FDL-ST-DD90588/ 1	CWTPW085	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002631	3	123A90-FDL-ST-DD90588/ 1	CWTPW085	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002632	4	123A90-FDL-ST-DD90588/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002633	6	123A90-FDL-ST-DD90588/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002634	1	123A90-FDL-ST-DD90588/ 1	CWTPW037	340,000 MM	16,50	2A	FCAW	0.424 Mt	A
002635	5	123A90-FDL-ST-DD90588/ 1	CWTPW037	340,000 MM	16,50	2A	FCAW	0.090 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT - RT/TT/OFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comanduni Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002626	1	123A90-FDL-ST-DD90590/ 1	CWTPW071	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
002627	5	123A90-FDL-ST-DD90590/ 1	CWTPW071	340,000 MM	16,50	2A	FCAW	0.300 Mt	A
002628	1	123A90-FDL-ST-DD90590/ 1	CWTPW070	340,000 MM	16,50	2A	FCAW	0.303 Mt	A
002629	5	123A90-FDL-ST-DD90590/ 1	CWTPW070	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002625	3	123A90-FDL-ST-DD90594/ 1	CWTPW024	297,000 MM	15,00	2A	FCAW	0.460 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002624	1	123A90-FDL-ST-DD90594/ 1	CWTPW024	219,100 MM	10,30	2A	FCAW	0.642 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002623	3	123A90-FDL-ST-DD90588/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002622	4	123A90-FDL-ST-DD90588/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.207 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company's Certificate MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator's Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 12-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002621	1	123A90-FDL-ST-DD90588/ 1	CWTPW034	340,000 MM	16,50	2A	FCAW	0.300 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 127 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002620	5	123A90-FDL-ST-DD90508/ 1	CWTP001	805,000 MM	65,00	2A	FCAW	1.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator Controller Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

MIRKO ROSETTI
Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002619	9	123A90-FDL-ST-DD90508/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002618	6	123A90-FDL-ST-DD90508/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-02-2025

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002617	9	123A90-FDL-ST-DD90507/ 1	CWTP002	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 128 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002616	4	123A90-FDL-ST-DD90508/ 1	CWTP001	600,000 MM	75,00	2A	FCAW	2.343 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	Company: CONTROL ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002614	7	123A90-FDL-ST-DD90508/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	2.385 MM	A
002615	8	123A90-FDL-ST-DD90508/ 1	CWTP001	2.379,000 MM	30,00	2A	FCAW	2.385 MM	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: Rosetti Marino Level 2 ISO 9712 / SNT-TC1A Qualification: Rosetti MTM VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-02-2025

FOGLIO / Sheet n° 1 of 4

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 117 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002612	1	123A90-FDL-ST-DD90588/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.301 Mt	A
002613	3	123A90-FDL-ST-DD90588/ 1	CWTPW038	340,000 MM	16,50	2A	FCAW	0.301 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712				

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002611	9	123A90-FDL-ST-DD90507/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company Rosetti Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 128 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002610	4	123A90-FDL-ST-DD90507/ 1	CWTP003	600,000 MM	75,00	2A	FCAW	2.343 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-02-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002607	6	123A90-FDL-ST-DD90507/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A
002608	8	123A90-FDL-ST-DD90507/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	2.385 Mt	A
002609	7	123A90-FDL-ST-DD90507/ 1	CWTP003	2.379,000 MM	30,00	2A	FCAW	2.385 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-RT/TOFD Operator: Rosetti Mirko				

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 04-02-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	130542006	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Doppler	CDB685	4	8x9	70°	69°	12	37.00	+6	+2	SHEAR
Img	1631	4	8x9	45°	45°	10	36.00	+6	+2	SHEAR
Img	6792	4	8x9	60°	57°	10	38.00	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002603	9	123A90-FDL-ST-DD90774/ 1	CWCF003	355,600 MM	20,00	1D	GMAW+SAW	0.181 Mt	A
002604	3	123A90-FDL-ST-DD90777/ 1	CWCF006	355,600 MM	20,00	1D	GMAW+SAW	0.181 Mt	A
002605	3	123A90-FDL-ST-DD90778/ 1	CWCF007	355,600 MM	20,00	1D	GMAW+SAW	0.177 Mt	A
002606	9	123A90-FDL-ST-DD90775/ 1	CWCF004	355,600 MM	20,00	1D	GMAW+SAW	0.181 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.
Repair length at least 50mm on each side of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Martellotta Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded — [X] SPAZZOLATO As brushed — [ ] LAVORATO A MACCHINA As Machined — [ ] CLADDATO As cladded — [ ] MOLATO As Grounded

[ ] LAMINATO As rolled — [ ] GREZZO As forged — [ ] SABBIATO As Sand Blasted — [ ] VERNICIATO As painted — [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 128 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002602	4	123A90-FDL-ST-DD90507/ 1	CWTP002	600,000 MM	75,00	2A	FCAW	2.343 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC-1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD-EN ISO9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002599	6	123A90-FDL-ST-DD90507/ 1	CWTP002	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A
002600	7	123A90-FDL-ST-DD90507/ 1	CWTP002	2.379,000 MM	30,00	2A	FCAW	2.385 Mt	A
002601	8	123A90-FDL-ST-DD90507/ 1	CWTP002	2.379,000 MM	30,00	2A	FCAW	2.385 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Romandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-02-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 1 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	12	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002598	5	123A90-FDL-ST-DD90507/ 1	CWTP002	805,100 MM	65,00	2A	FCAW	1.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO SPA	ROSETTI MARINO SPA			
MIRKO ROSETTI	Comandini Massimo			
Level 2 ISO 9712 / SNT-TC1A	Level III NDT			
Operator: Rosetti Mirko	EN - ISO9712			
VT-MT-PT-UT-PAUT/TOFD				

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002595	8	123A90-FDL-ST-DD90508/ 1	CWTP004	2.379,000 MM	30,00	2A	FCAW	2.385 Mt	A
002596	7	123A90-FDL-ST-DD90508/ 1	CWTP004	2.379,000 MM	30,00	2A	FCAW	2.385 Mt	A
002597	9	123A90-FDL-ST-DD90508/ 1	CWTP004	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 127 T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002594	6	123A90-FDL-ST-DD90508/ 1	CWTP004	2.379,000 MM	30,00	2A	FCAW	1.190 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A EN - ISO9712 VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 31-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 1-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002593	5	123A90-FDL-ST-DD90508/ 1	CWTP004	805,000 MM	65,00	2A	FCAW	1.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Data: 31-01-2025	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-01-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	130542006	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Doppler	CDB685	4	8x9	70°	69°	12	37.00	+6	+2	SHEAR
Img	1631	4	8x9	45°	45°	10	36.00	+6	+2	SHEAR
Img	6792	4	8x9	60°	57°	10	38.00	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002592	3	123A90-FDL-ST-DD90777/ 1	CWCF006	355,600 MM	20,00	1D	GMAW+SAW	0.181 Mt	R

NOTE / Remarks: -Piece temperature: from 10°C. The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Martellotta Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002592	Pag 2 di 2
		Data/date: 27/01/25	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	123A90
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	90777

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☐

3 ☐

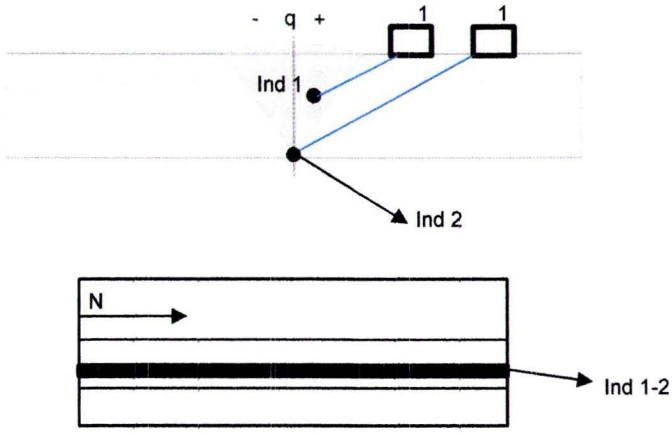
4 ☐

5 ☐

6 ☐

7 ☐

90777/1/CWCF006/ W3



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	181	9	/	+5	/	/	0	N	25	1	R	69°	PLANAR
2	+3 dB	/	181	20	/	+6	/	/	0	N	50	1	R	69°	PLANAR

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
Martelli Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-01-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	130542006	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Doppler	CDB685	4	8x9	70°	69°	12	37.00	+6	+2	SHEAR
Img	1631	4	8x9	45°	45°	10	36.00	+6	+2	SHEAR
Img	6792	4	8x9	60°	57°	10	38.00	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002588	9	123A90-FDL-ST-DD90775/ 1	CWCF004	355,600 MM	20,00	1D	GMAW+SAW	0.181 Mt	A
002589	3	123A90-FDL-ST-DD90778/ 1	CWCF007	355,600 MM	20,00	1D	GMAW+SAW	0.177 Mt	A
002590	3	123A90-FDL-ST-DD90779/ 1	CWCF008	355,600 MM	20,00	1D	GMAW+SAW	0.140 Mt	A
002591	3	123A90-FDL-ST-DD90776/ 1	CWCF005	355,600 MM	20,00	1D	GMAW+SAW	0.181 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL Operator: Martellotta Massimiliano CONTROL SRL	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 27-01-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	130542006	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Doppler	CDB685	4	8x9	70°	69°	12	37.00	+6	+2	SHEAR
Img	1631	4	8x9	45°	45°	10	36.00	+6	+2	SHEAR
Img	6792	4	8x9	60°	57°	10	38.00	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002587	9	123A90-FDL-ST-DD90774/ 1	CWCF003	355,600 MM	20,00	1D	GMAW+SAW	0.181 Mt	R

NOTE / Remarks: -Piece temperature: from 10°C. The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Martellotta Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO	CERTIFICATO D'ESAME CON ULTRASUONI - ULTRASONIC TEST CERTIFICATE	N° 002587	Pag 2 di 2
		Data/date: 27/01/25	Rev. 0
Progetto / Project	*BASE LOAD POWER HUB (BLPH)*	Commessa / Job	**123A90**
Cliente / Client	*CROSSWIND*	Disegno / Dwg.	**90774**

SCHIZZO - Sketch

Scanning Position

1 ☒ 70°

2 ☒ 60°

3 ☐

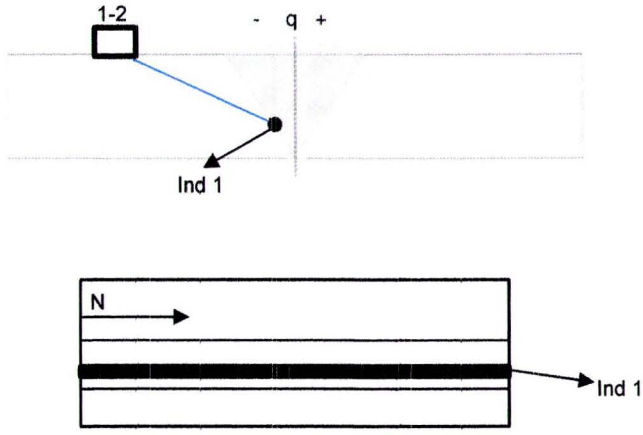
4 ☐

5 ☐

6 ☐

7 ☐

90774/1/CWCF003/ W9



LOCALIZZAZIONE DIFETTI – DEFECTS LOCATION			
q	= DISTANZA DIFETTO – ASSE SALDATURA Flaw – Weld axis distance	Δ h	= ALTEZZA DELL'INDICAZIONE Flaw height
H	= AMPIEZZA DEL PICCO (o valore "A" AWS) Pitch amplitude /(or indication level "A" AWS)	Δ d	= DISTANZA TRA DUE INDICAZIONI COMPLANARI Distance between two coplanar flaws
(N)	= PUNTO DI RIFERIMENTO Reference point	EF	= DIFETTO EQUIVALENTE Equivalent flaw
L	= DISTANZA INDICAZIONE DA (N) Flaw distance from (N)	Δ l	= LUNGHEZZA INDICAZIONE Flaw length
A/R	= ACCETTABILE / RIPARARE Acceptable / Repair	P	= PROFONDITA' INDICAZIONE Flaw depth
P.us	= PERCORSO ULTRASONORO Ultrasonic path	D	= DISTANZA ASSE SONDA – ASSE SALDATURA Sound beam – weld axis distance

Ind. nr	H	EF	Δ l	P	Δ h	q	D	Δ D	L	N	P.us	POS	A/R	Angle Probe	TYPE OF INDICATION
1	+2 dB	/	181	14	/	-6	/	/	0	N	41	1	R	69°	PLANAR
	+3 dB	/	181	14	/	-6	/	/	0	N	26	2	R	57°	

Note:

OPERATORE Operator	CONTROLLO QUALITA' Quality Control	ISPETTORE CLIENTE Company Representative	ISPETTORE TERZA PARTE Third Party Inspector
Marcelli Massimiliano CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-01-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	130542006	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
Doppler	CDB685	4	8x9	70°	69°	12	37.00	+6	+2	SHEAR
Img	6792	4	8x9	60°	57°	10	38.00	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002586	162	123A90-FDL-ST-DD90762/ 1	CWCF001	323,900 MM	12,00	2A	FCAW	0.464 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator Martellotta Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 1-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-weld ex	18534	4	3,5x10	0°	0°	/	48.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002584	23	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	1.450 Mt	A
002585	24	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	1.425 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. - Repair length at least 50mm on each side of the excavation when fe

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 127-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	11	39.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-weld ex	18534	4	3,5x10	0°	0°	/	48.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002583	1	123A90-FDL-ST-DD90495/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	8.866 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. - Repair length at least 50mm on each side of the excavation when fe

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Company CONTROL ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-01-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002582	38	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	18,26	2A	FCAW	0.590 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. - MUT examination has been not performed as IDL-QCI-UT-222 posit

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-01-2025

FOGLIO / Sheet n° 1 of

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.5°	12	41.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002581	37	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	18,26	2A	FCAW	0.590 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. - MUT examination has been not performed as IDL-QCI-UT-222 posit

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002576	122	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.591 Mt	A
002577	125	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.541 Mt	A
002578	126	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.591 Mt	A
002579	127	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.541 Mt	A
002580	128	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.591 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. - MUT examination has been not performed as IDL-QCI-UT-222 posit

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002570	113	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.541 Mt	A
002571	114	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.591 Mt	A
002572	115	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.541 Mt	A
002573	119	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.541 Mt	A
002574	120	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.591 Mt	A
002575	121	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.541 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. - MUT examination has been not performed as IDL-QCI-UT-222 posit

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-TOFD	Company: CONFIDENTIAL Operator: Comandini Massimo Level: UT NDT EN - ISO9712	ROSETTI MARINO SPA		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	40.50	+6	/	LONG
Olympus	1250643	4	8x9	70°	67°	12	41.00	+6	+2	SHEAR
Olympus	1297718	4	8x9	60°	59°	12	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002567	8	123A90-FDL-ST-DD90771/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.889 Mt	A
002568	15	123A90-FDL-ST-DD90772/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.889 Mt	A
002569	22	123A90-FDL-ST-DD90772/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.889 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Randazzo Salvatore CONTROL snc	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0222 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
IMG (weld ex.)	I961	4	3,5x10	0°	0°	/	40.50	+6	/	LONG
Olympus	1250643	4	8x9	70°	67°	12	41.00	+6	+2	SHEAR
Olympus	1297718	4	8x9	60°	59°	12	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002566	1	123A90-FDL-ST-DD90771/ 1	CWCF002	273,100 MM	9,30	2A	FCAW	0.889 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO 9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002564	7	123A90-FDL-ST-DD90505/ 1	CWTP006	500,000 MM	25,00	2A	FCAW	0.500 MM	A
002565	8	123A90-FDL-ST-DD90505/ 1	CWTP006	500,000 MM	25,00	2A	FCAW	0.500 MM	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL-T MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002562	5	123A90-FDL-ST-DD90505/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	0.926 Mt	A
002563	6	123A90-FDL-ST-DD90505/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	0.926 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini, Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Phoenix	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002558	90	123A90-FDL-ST-DD90767/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.708 Mt	A
002559	87	123A90-FDL-ST-DD90767/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.729 Mt	A
002560	88	123A90-FDL-ST-DD90767/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.708 Mt	A
002561	89	123A90-FDL-ST-DD90767/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.729 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 position "C" due to without access.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-ET/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	6+	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002557	8	123A90-FDL-ST-DD90506/ 1	CWTP008	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
Operator: Rosetti Mirko
PT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002556	7	123A90-FDL-ST-DD90506/ 1	CWTP008	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operatore CONTROLLO Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko MIRKO ROSETTI	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 20-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002554	5	123A90-FDL-ST-DD90506/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	0.926 Mt	A
002555	6	123A90-FDL-ST-DD90506/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	0.926 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC-1A PT-MT-UT-RT-UT/AUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002551	2	123A90-FDL-ST-DD90506/ 1	CWTP005	500,000 MM	25,00	2A	FCAW	0.500 MT	A
002552	3	123A90-FDL-ST-DD90506/ 1	CWTP005	944,000 MM	20,00	2A	FCAW	0.926 MT	A
002553	4	123A90-FDL-ST-DD90506/ 1	CWTP005	944,000 MM	20,00	2A	FCAW	0.926 MT	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko		ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712		

MIRKO ROSETTI
evel 2 ISO 9712 SNT-TC1A
T-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	6+	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002550	1	123A90-FDL-ST-DD90506/ 1	CWTP005	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD EN - ISO9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002549	4	123A90-FDL-ST-DD90505/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	0.926 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 MNT-TC1A T-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002548	3	123A90-FDL-ST-DD90505/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	0.926 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Printed by: QUALITY01		ROSETTI MARINO SPA Comandini Massimo Level III NDT ISO9712		
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD EN				

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002546	1	123A90-FDL-ST-DD90505/ 1	CWTP007	500,000 MM	25,00	2A	FCAW	0.500 MI	A
002547	2	123A90-FDL-ST-DD90505/ 1	CWTP007	500,000 MM	25,00	2A	FCAW	0.500 MI	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 119-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	45.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002543	18	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	0.420 Mt	A
002544	20	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	0.585 Mt	A
002545	21	123A90-FDL-ST-DD90496/ 1	CWTP009	2.073,100 MM	50,00	2A	FCAW	0.660 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. -Repair length at least 50mm on each side of the excavation when feasible.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO SPA Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002539	1	123A90-FDL-ST-DD90505/ 1	CWTP006	500,000 MM	25,00	2A	FCAW	0.500 MI	A
002540	2	123A90-FDL-ST-DD90505/ 1	CWTP006	500,000 MM	25,00	2A	FCAW	0.500 MI	A
002541	3	123A90-FDL-ST-DD90505/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	0.926 MI	A
002542	4	123A90-FDL-ST-DD90505/ 1	CWTP006	944,000 MM	20,00	2A	FCAW	0.926 MI	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

Company QUALIFICA
Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME Examination Date: 16-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002537	7	123A90-FDL-ST-DD90506/ 1	CWTP005	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
002538	8	123A90-FDL-ST-DD90506/ 1	CWTP005	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002536	6	123A90-FDL-ST-DD90506/ 1	CWTP005	944,000 MM	20,00	2A	FCAW	0.926 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL				
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 16-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	Q

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002535	5	123A90-FDL-ST-DD90506/ 1	CWTP005	944,000 MM	20,00	2A	FCAW	0.926 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 SNTTC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	11	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	58°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67.7°	12	39.70	+6	+3	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002533	7	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	2A	FCAW	0.638 Mt	A
002534	8	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	2A	FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MOD-QCI-34 Rev. 2020-00

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002529	1	123A90-FDL-ST-DD90506/ 1	CWTP008	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
002530	2	123A90-FDL-ST-DD90506/ 1	CWTP008	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
002531	3	123A90-FDL-ST-DD90506/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	0.926 Mt	A
002532	4	123A90-FDL-ST-DD90506/ 1	CWTP008	944,000 MM	20,00	2A	FCAW	0.926 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

MIRKO ROSETTI
vel 2 ISO 9712 / SNT-TC1A
T-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002527	7	123A90-FDL-ST-DD90505/ 1	CWTP007	500,000 MM	25,00	2A	FCAW	0.500 Mt	A
002528	8	123A90-FDL-ST-DD90505/ 1	CWTP007	500,000 MM	25,00	2A	FCAW	0.500 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko MIRKO ROSETTI vel 2 ISO 9712 / SNT-TC1A T-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 15-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	58°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67.7°	12	41.70	+6	+3	SHEAR
Krautkramer	18785	4	8x9	45°	45°	11	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002525	5	123A90-FDL-ST-DD90505/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	0.926 MT	A
002526	6	123A90-FDL-ST-DD90505/ 1	CWTP007	944,000 MM	20,00	2A	FCAW	0.926 MT	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Comandini Massimo Level III NDT EN ISO9712 T-PT-UT-PAUT/TOFD	Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712		

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002522	145	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A
002523	75	123A90-FDL-ST-DD90766/ 1	CWCF001	406,400 MM	31,00	2A	FCAW	0.069 Mt	A
002524	80	123A90-FDL-ST-DD90766/ 1	CWCF001	406,400 MM	31,00	2A	FCAW	0.034 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-223 pa

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 07-01-2025

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-base m.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002521	143	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A

NOTE / Remarks: -Piece temperature: from 10°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-223 pc

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Operator: Rosetti Mirko	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002520	160	123A90-FDL-ST-DD90764/ 1	CWCF001	406,400 MM	31,00	2A	FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-224 positic

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712				

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD
Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 24-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0224 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002519	159	123A90-FDL-ST-DD90764/ 1	CWCF001	406,400 MM	31,00	2A	FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-224 positic

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC-1A VT-MT-PT-UT-PAUT/TOFD Operator - Rosetti Marino	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002516	47	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A
002517	151	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A
002518	48	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded; [ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002515	54	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A Operator: Rosetti Mirko VT-MT-PT-UT-PAUT/TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002513	52	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	18,26	2A	FCAW	0.543 Mt	A
002514	53	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002507	32	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A
002508	41	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A
002509	42	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A
002510	118	123A90-FDL-ST-DD90765/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.708 Mt	A
002511	141	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.534 Mt	A
002512	142	123A90-FDL-ST-DD90765/ 1	CWCF001	168,300 MM	14,27	2A	FCAW	0.534 Mt	A

NOTE / Remarks -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Company CONTROL ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 17-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002506	31	123A90-FDL-ST-DD90762/ 1	CWCF001	219,100 MM	23,00	2A	FCAW	0.702 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. MUT examination has been not performed as IDL-QCI-UT-222 positic

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

MIRKO ROSETTI
Level 2 ISO 9712 / SNT-TC-1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 28-08-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	SMARTOR FD	M06322230425R	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	5692985714	4	8x9	70°	67°	12	39.20	+6	+4	SHEAR
GE	73687	4	8x9	60°	60°	11	36.50	+6	+3	SHEAR
GE (Mat. Base)	5746350569	4	3,5x10	0°	0°	/	39.00	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002505	1	123A90-FDL-ST-DD90204/ 1	CWBR032	406,400 MM	15,90	2A	FCAW	1.569 Mt	A

NOTE / Remarks: -Piece temperature: from 26°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material - MUT examination has been not performed as IDL-QCI-UT-223 positi

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Barchi Luca	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 09-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	110123905	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	76268	4	8x9	60°	57°	11	35.50	+6	+2	SHEAR
GE	87735	4	8x9	70°	68°	11	47.50	+6	+4	SHEAR
KK (Mat. Base)	58634	4	3,5x10	0°	0°	/	36.00	/	/	LONG
KK (Weld ex.)	58634	4	3,5x10	0°	0°	/	38.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002504	99	123A90-FDL-ST-DD90767/ 1	CWCF001	344,500 MM	20,00	2A	FCAW	1.000 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. - The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
NICO TOMASI CONSORZIO RMB LT-UT Lev. 3 VT-PT-MT-TOFD/PA Lev.2 UNI EN ISO 9712	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 06-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	41614	4	8x9	60°	58°	11	38.80	+6	+2	SHEAR
GE	5692985695	4	8x9	70°	69°	12	35.80	+6	+3	SHEAR
Siui (Base Ma.)	H2300281R	4	3,5x10	0°	0°	/	46.00	/	/	LONG
Siui (Weld Ex.)	H2300281R	4	3,5x10	0°	0°	/	48.00	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002502	92	123A90-FDL-ST-DD90767/ 1	CWCF001	344,500 MM	20,00	2A	FCAW	1.000 Mt	A
002503	76	123A90-FDL-ST-DD90766/ 1	CWCF001	344,500 MM	20,00	2A	FCAW	1.000 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL Operator: Morandi Massimiliano	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

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ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded
[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 6-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002500	60	123A90-FDL-ST-DD90764/ 1	CWCF001	344,500 MM	20,00	2A	FCAW	0.040 Mt	A
002501	65	123A90-FDL-ST-DD90764/ 1	CWCF001	344,500 MM	20,00	2A	FCAW	0.040 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	API 5L Gr.X52	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002499	10	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	2A	FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Rosetti CND Srl MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 03-12-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	API 5L Gr.X52	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded; [X] SPAZZOLATO As brushed; [ ] LAVORATO A MACCHINA As Machined; [ ] CLADDATO As cladded; [ ] MOLATO As Grounded

[ ] LAMINATO As rolled; [ ] GREZZO As forged; [ ] SABBIATO As Sand Blasted; [ ] VERNICIATO As painted; [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002498	5	123A90-FDL-ST-DD90762/ 1	CWCF001	406,400 MM	36,53	2A	FCAW	0.638 Mt	A

NOTE / Remarks: -Piece temperature: from 12°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Company: CONTROL Tecnico: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 1-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002497	17	123A90-FDL-ST-DD90496/ 1	CWTP009	3.850,000 MM	50,00	2A	FCAW	0.400 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Company: CONTROL Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level II NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002493	43	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	1.017 Mt	A
002494	44	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	2.333 Mt	A
002495	45	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	0.200 Mt	A
002496	46	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	1.524 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 27-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10025 S355 J2 EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002487	39	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	2.333 Mt	A
002488	37	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	0.506 Mt	A
002489	38	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	1.017 Mt	A
002490	40	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	0.200 Mt	A
002491	41	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	1.523 Mt	A
002492	42	123A90-FDL-ST-DD90656/ 1	CWTPWT001	1.517,800 MM	25,00	2A	FCAW	0.506 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD Expiration Date: 11/11/2029	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 25-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination technique	TARATURA SCALA Time base calibration
B 121-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	58414-3141	2	14x14	45°	45°	10	31.40	+6	+2	SHEAR
GE	58415-2982	2	14x14	60°	59°	12	38.40	+6	+2	SHEAR
GE	58416-3150	2	14x14	70°	67°	12	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002486	26	123A90-FDL-ST-DD90495/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	2.580 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+3	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002485	2	123A90-FDL-ST-DD90754/ 1	CWTPSG003	680,000 MM	10,00	2A	FCAW	0.200 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN-ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES
RAPPORTO DI ESAME CON ULTRASUONI
ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 26-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00006 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0215 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded	☒ SPAZZOLATO As brushed	☐ LAVORATO A MACCHINA As Machined	☐ CLADDATO As cladded	☐ MOLATO As Grounded
☐ LAMINATO As rolled	☐ GREZZO As forged	☐ SABBIATO As Sand Blasted	☐ VERNICIATO As painted	☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 600	160959009	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle: NOMINALE Nominal (°)	ANGOLO Beams Angle: EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
IMG (mat. base)	I961	4	3,5x10	0°	0°	/	38.50	/	/	LONG
Olympus	1250643	4	8x9	70°	69°	11	41.50	+6	+3	SHEAR
Olympus	1297718	4	8x9	60°	58°	11	39.00	+6	+2	SHEAR
Olympus	662050	4	8x9	45°	45°	10	38.50	+6	+2	SHEAR

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002484	1	123A90-FDL-ST-DD90760/ 1	CWTPSG003	660,000 MM	30,00	2A	FCAW	2.113 MM	A

NOTE / Remarks: -Piece temperature: from 16°C.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company: CONTROL snc Operator: Randazzo Salvatore	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 22-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0223 Rev. 02

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 123-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG
Phoenix-Weld Ex	18534	4	3,5x10	0°	0°	/	47.40	+6	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002483	1	123A90-FDL-ST-DD90204/ 1	CWLG020	700,000 MM	30,00	2A	FCAW	2.240 MI	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT-TOFD	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 23-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0216 Rev. 04

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	DRI After Repair	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
☐ MAT. BASE Parent mat. ☒ SALDATURA Weld metal	EN 10225 S420	☐ PRIMA del TT Before PWHT ☐ DOPO TT After PWHT ☒ NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

☒ SALDATO As Welded ☒ SPAZZOLATO As brushed ☐ LAVORATO A MACCHINA As Machined ☐ CLADDATO As cladded ☐ MOLATO As Grounded

☐ LAMINATO As rolled ☐ GREZZO As forged ☐ SABBIATO As Sand Blasted ☐ VERNICIATO As painted ☐ ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 121-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Krautkramer	18785	4	8x9	45°	45°	10	39.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002482	30	123A90-FDL-ST-DD90495/ 1	CWTP009	700,000 MM	65,00	2A	FCAW	0.370 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material. Repair length plus 50mm on each side of the excavation.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT - PAUT-TOFD	Company CONTROL ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			

ROSETTI MARINO
Group of Companies

TEST REPORT - NDT ACTIVITIES

RAPPORTO DI ESAME CON ULTRASUONI

ULTRASONIC TEST REPORT

DATA DELL'ESAME / Examination Date: 21-11-2024

FOGLIO / Sheet n° 1 of 1

COMMESSA / JOB	PROGETTO / Project	CLIENTE / Client	NUMERO ORDINE / Order number	DISCIPLINA / Discipline
123A90	BASE LOAD POWER HUB (BLPH)	CROSSWIND	CW-I-WP4-2023-05	ST Structure

CODICE PROCEDURA / Procedure code	CODICE SPECIFICA / Standard Code	ISTRUZIONE DI LAVORO UT / UT Work instruction
123A90-PML-QHSE-PRO-00096 Rev. 01	K559-2254-MT-SPE-001	IDL-QCI-UT - 0214 Rev. 03

CRITERIO DI ACCETTABILITÀ / Acceptance criteria	FASE DEL CONTROLLO / Exam. Phase	INSPECTION TEST PLAN / ITP	FASE ITP / ITP Phase
UNI EN ISO 11666 + UNI EN ISO 23279	FIN Weld Completion	123A90-PML-QHSE-ITP-00075 Rev. 1	8.0

OGGETTO / Object	MATERIALE / Material	TRATTAMENTO TERMICO / Post Weld Heat Treatment
[ ] MAT. BASE Parent mat. [X] SALDATURA Weld metal	EN 10025 S355	[ ] PRIMA del TT Before PWHT [ ] DOPO TT After PWHT [X] NON APPLICABILE Not Applicable

STATO SUPERFICIALE / Surface condition

[X] SALDATO As Welded [X] SPAZZOLATO As brushed [ ] LAVORATO A MACCHINA As Machined [ ] CLADDATO As cladded [ ] MOLATO As Grounded

[ ] LAMINATO As rolled [ ] GREZZO As forged [ ] SABBIATO As Sand Blasted [ ] VERNICIATO As painted [ ] ALTRO Other

APPARECCHIATURA Equipment	TIPO Type	NUMERO DI SERIE Serial number	LIQUIDO D'ACCOPPIAMENTO Couplant medium	SMORZAMENTO Damping	SOGLIA Reject
OLYMPUS	EPOCH 650	150019301	Water Metilcellulose	/	/

BLOCCO DI CALIBRAZIONE Calibration block	CONTROLLO MATERIALE BASE Parent material inspection	BLOCCO DI RIFERIMENTO Reference block	SENSIBILITÀ DI TARATURA Calibration sensitivity	TECNICA DI CONTROLLO Examination techinque	TARATURA SCALA Time base calibration
B 117-T	100% Acceptable	I.I.W.-V1-V2	SDH 3mm	Reflection	On distance

COSTRUTTORE SONDA Probe manufacturer	NUMERO DI SERIE Serial number	FREQUENZA Frequency (MHz)	DIMENSIONE Size (mm)	ANGOLO Beams Angle NOMINALE Nominal (°)	ANGOLO Beams Angle EFFETTIVO Actual (°)	EMISS. FASCIO Probe index (mm)	GUADAGNO Gain setting (dB)	SENSIBILITÀ SCANSIONE Scan sensitivity (dB)	PERDITA DI TRASFERIMENTO Transfer correction (dB)	ONDE Wave
GE	54636	4	8x9	60°	59°	12	40.10	+6	+2	SHEAR
GE	56929	4	8x9	70°	67°	12	41.70	+6	+2	SHEAR
Phoenix-Base-M.	18534	4	3,5x10	0°	0°	/	45.40	/	/	LONG

LO STATO FISICO E L'ASPETTO ESTERNO DELL'APPARECCHIATURA COMBINATA E' STATO VERIFICATO PRIMA DELL'UTILIZZO E RISULTA CONFORME AI REQUISITI APPLICABILI
The combined equipment physical state and external aspect has been checked before using and it complies with the applicable requirements

OGGETTO CONTROLLATO / Tested object

RAPPORTO Report Nr.	SALDATURA Weld number	DISEGNO / FOGLIO Drawing Nr / Sheet	MARCA Mark	DIMENSIONE PEZZO Item Dimension	Sp. Thk (mm)	WPS	TECNICA DI SALDATURA Welding Process	LUNGHEZZA CONTROLLO Inspected length	ESITO Result
002481	2	123A90-FDL-ST-DD90754/ 1	CWTPSG002	680,000 MM	10,00	2A	FCAW	0.200 Mt	A

NOTE / Remarks: -Piece temperature: from 16°C. -The effective angle is related to the deviation of propagation direction of sound path due to TMCP material.

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITÀ Quality Control Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Rep.	ISPETTORE TERZA PARTE Third Part Inspector
Company Control MIRKO ROSETTI Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD Operator: Rosetti Mirko	ROSETTI MARINO SPA Comandini Massimo Level III NDT EN - ISO9712			